

Course Section	Course Subject	Course Number	Special Topic	Section Number	Section Title	Term	Description	Delivery Mode	Scheduled Days	Scheduled Time
AANB_V 500-003	AANB_V	500		003	Graduate Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AANB_V 504-001	AANB_V	504		001	Research Methodology in Applied Animal Biology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AANB_V 530-A_001	AANB_V	530	A	A_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-A_002	AANB_V	530	A	A_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-A_003	AANB_V	530	A	A_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-B_001	AANB_V	530	B	B_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-B_002	AANB_V	530	B	B_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-B_003	AANB_V	530	B	B_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-C_001	AANB_V	530	C	C_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-C_002	AANB_V	530	C	C_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 530-C_003	AANB_V	530	C	C_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 549-A_001	AANB_V	549	A	A_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 549-A_002	AANB_V	549	A	A_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 549-A_003	AANB_V	549	A	A_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 549-B_001	AANB_V	549	B	B_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 549-B_002	AANB_V	549	B	B_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 549-B_003	AANB_V	549	B	B_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AANB_V 551-001	AANB_V	551		001	Tutorials in Animal Welfare Research	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AANB_V 649-001	AANB_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
AANB_V 649-002	AANB_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
AANB_V 649-003	AANB_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
ACAM_V 250-002	ACAM_V	250		002	Asian Canadians in Popular Culture	W1	Popular culture's role in the production of Asian Canadian and diasporic communities, with emphasis on race, gender, sexuality, and other identity categories.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.

ACAM_V 300-001	ACAM_V	300	001	Dis/Orienting Asian Canada	W1	The histories, cultures, social dynamics, and life experiences of Asian communities in Canada in the context of global migrations. Restricted to students with second year status or higher.	Multi-access Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ACAM_V 310-001	ACAM_V	310	001	Asian Canadian Cultural Studies	W2	Examines Asian Canadian communities and cultural production in relation to local activism, organizing, and cultural politics in historical and contemporary contexts. Restricted to students with second year standing or higher.	Multi-access Learning	Arranged	Arranged	
ACAM_V 320-B_001	ACAM_V	320	B	B_001	Selected Topics in ACAM Studies	W2	Selected Asian Canadian Asian Migration topics. Consult acam.arts.ubc.ca for this year's offerings. Prerequisite: Restricted to students with at least Second year standing; a previous course in Asian Canadian and Asian Migration Studies is recommended.	Multi-access Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
ACAM_V 320-D_001	ACAM_V	320	D	D_001	Selected Topics in ACAM Studies	W2	Selected Asian Canadian Asian Migration topics. Consult acam.arts.ubc.ca for this year's offerings. Prerequisite: Restricted to students with at least Second year standing; a previous course in Asian Canadian and Asian Migration Studies is recommended.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ACAM_V 320-J_001	ACAM_V	320	J	J_001	Selected Topics in ACAM Studies	W1	Selected Asian Canadian Asian Migration topics. Consult acam.arts.ubc.ca for this year's offerings. Prerequisite: Restricted to students with at least Second year standing; a previous course in Asian Canadian and Asian Migration Studies is recommended.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ACAM_V 350-001	ACAM_V	350	001	Asian Canadian Community-Based Media	W2	Digital media production in the context of community engagement. Includes critical media literacy, community-based research ethics, project design, training in media forms such as audio, video, photography, and web publishing.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.	
ADHE_V 327-63A	ADHE_V	327	63A	Teaching Adults	W1	Planning, conducting and evaluating instruction for adults. Consideration is given to different beliefs and ways of thinking about teaching. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 327-63B	ADHE_V	327	63B	Teaching Adults	W1	Planning, conducting and evaluating instruction for adults. Consideration is given to different beliefs and ways of thinking about teaching. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 327-63C	ADHE_V	327	63C	Teaching Adults	W1	Planning, conducting and evaluating instruction for adults. Consideration is given to different beliefs and ways of thinking about teaching. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 327-63D	ADHE_V	327	63D	Teaching Adults	W2	Planning, conducting and evaluating instruction for adults. Consideration is given to different beliefs and ways of thinking about teaching. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 327-63E	ADHE_V	327	63E	Teaching Adults	W2	Planning, conducting and evaluating instruction for adults. Consideration is given to different beliefs and ways of thinking about teaching. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 327-63F	ADHE_V	327	63F	Teaching Adults	W2	Planning, conducting and evaluating instruction for adults. Consideration is given to different beliefs and ways of thinking about teaching. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 328-63A	ADHE_V	328	63A	Institutions of Adult Education	W1	The history, roles, and activities of institutions in the field of adult education. Institutions in Canada, Great Britain, and the United States are emphasized, and some experiences in other countries are examined. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 328-63B	ADHE_V	328	63B	Institutions of Adult Education	W1	The history, roles, and activities of institutions in the field of adult education. Institutions in Canada, Great Britain, and the United States are emphasized, and some experiences in other countries are examined. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 328-63C	ADHE_V	328	63C	Institutions of Adult Education	W1	The history, roles, and activities of institutions in the field of adult education. Institutions in Canada, Great Britain, and the United States are emphasized, and some experiences in other countries are examined. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 328-63D	ADHE_V	328	63D	Institutions of Adult Education	W2	The history, roles, and activities of institutions in the field of adult education. Institutions in Canada, Great Britain, and the United States are emphasized, and some experiences in other countries are examined. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 328-63E	ADHE_V	328	63E	Institutions of Adult Education	W2	The history, roles, and activities of institutions in the field of adult education. Institutions in Canada, Great Britain, and the United States are emphasized, and some experiences in other countries are examined. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 328-63F	ADHE_V	328	63F	Institutions of Adult Education	W2	The history, roles, and activities of institutions in the field of adult education. Institutions in Canada, Great Britain, and the United States are emphasized, and some experiences in other countries are examined. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 329-022	ADHE_V	329	022	Developing Short Courses, Workshops and Seminars	W1	Organization and administration of adult education events such as short courses, seminars, workshops, conferences and institutes. [3-0-0]	In Person Learning	Arranged	Arranged	
ADHE_V 329-63A	ADHE_V	329	63A	Developing Short Courses, Workshops and Seminars	W1	Organization and administration of adult education events such as short courses, seminars, workshops, conferences and institutes. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 329-63B	ADHE_V	329	63B	Developing Short Courses, Workshops and Seminars	W1	Organization and administration of adult education events such as short courses, seminars, workshops, conferences and institutes. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 329-63C	ADHE_V	329	63C	Developing Short Courses, Workshops and Seminars	W1	Organization and administration of adult education events such as short courses, seminars, workshops, conferences and institutes. [3-0-0]	Online Learning	Arranged	Arranged	
ADHE_V 329-63D	ADHE_V	329	63D	Developing Short Courses, Workshops and Seminars	W2	Organization and administration of adult education events such as short courses, seminars, workshops, conferences and institutes. [3-0-0]	Online Learning	Arranged	Arranged	

ADHE_V 329-63E	ADHE_V	329		63E	Developing Short Courses, Workshops and Seminars	W2	Organization and administration of adult education events such as short courses, seminars, workshops, conferences and institutes. [3-0-0]	Online Learning	Arranged	Arranged
ADHE_V 329-63F	ADHE_V	329		63F	Developing Short Courses, Workshops and Seminars	W2	Organization and administration of adult education events such as short courses, seminars, workshops, conferences and institutes. [3-0-0]	Online Learning	Arranged	Arranged
ADHE_V 330-021	ADHE_V	330		021	The Community Practice of Adult Education	W1	Community based adult education with particular emphasis on the application of knowledge of the social, economic, cultural and political environment in developing and conducting adult education programs with an for individuals and groups. [2-3-0]	In Person Learning	Arranged	Arranged
ADHE_V 330-63A	ADHE_V	330		63A	The Community Practice of Adult Education	W1	Community based adult education with particular emphasis on the application of knowledge of the social, economic, cultural and political environment in developing and conducting adult education programs with an for individuals and groups. [2-3-0]	Online Learning	Arranged	Arranged
ADHE_V 330-63B	ADHE_V	330		63B	The Community Practice of Adult Education	W1	Community based adult education with particular emphasis on the application of knowledge of the social, economic, cultural and political environment in developing and conducting adult education programs with an for individuals and groups. [2-3-0]	Online Learning	Arranged	Arranged
ADHE_V 330-63C	ADHE_V	330		63C	The Community Practice of Adult Education	W1	Community based adult education with particular emphasis on the application of knowledge of the social, economic, cultural and political environment in developing and conducting adult education programs with an for individuals and groups. [2-3-0]	Online Learning	Arranged	Arranged
ADHE_V 330-63D	ADHE_V	330		63D	The Community Practice of Adult Education	W2	Community based adult education with particular emphasis on the application of knowledge of the social, economic, cultural and political environment in developing and conducting adult education programs with an for individuals and groups. [2-3-0]	Online Learning	Arranged	Arranged
ADHE_V 330-63E	ADHE_V	330		63E	The Community Practice of Adult Education	W2	Community based adult education with particular emphasis on the application of knowledge of the social, economic, cultural and political environment in developing and conducting adult education programs with an for individuals and groups. [2-3-0]	Online Learning	Arranged	Arranged
ADHE_V 330-63F	ADHE_V	330		63F	The Community Practice of Adult Education	W2	Community based adult education with particular emphasis on the application of knowledge of the social, economic, cultural and political environment in developing and conducting adult education programs with an for individuals and groups. [2-3-0]	Online Learning	Arranged	Arranged
ADHE_V 412-021	ADHE_V	412		021	An Overview of Adult Education	W1	Survey of adult education theory and practice in Canada and the world. The focus is on the purpose and participation in, adult education, characteristics of learners, and the training of adult educators. [3-0-0; 3-0-0]	In Person Learning	Arranged	Arranged
ADHE_V 412-63A	ADHE_V	412		63A	An Overview of Adult Education	W1	Survey of adult education theory and practice in Canada and the world. The focus is on the purpose and participation in, adult education, characteristics of learners, and the training of adult educators. [3-0-0; 3-0-0]	Online Learning	Arranged	Arranged
ADHE_V 412-63B	ADHE_V	412		63B	An Overview of Adult Education	W1	Survey of adult education theory and practice in Canada and the world. The focus is on the purpose and participation in, adult education, characteristics of learners, and the training of adult educators. [3-0-0; 3-0-0]	Online Learning	Arranged	Arranged
ADHE_V 412-63C	ADHE_V	412		63C	An Overview of Adult Education	W1	Survey of adult education theory and practice in Canada and the world. The focus is on the purpose and participation in, adult education, characteristics of learners, and the training of adult educators. [3-0-0; 3-0-0]	Online Learning	Arranged	Arranged
ADHE_V 412-63D	ADHE_V	412		63D	An Overview of Adult Education	W2	Survey of adult education theory and practice in Canada and the world. The focus is on the purpose and participation in, adult education, characteristics of learners, and the training of adult educators. [3-0-0; 3-0-0]	Online Learning	Arranged	Arranged
ADHE_V 412-63E	ADHE_V	412		63E	An Overview of Adult Education	W2	Survey of adult education theory and practice in Canada and the world. The focus is on the purpose and participation in, adult education, characteristics of learners, and the training of adult educators. [3-0-0; 3-0-0]	Online Learning	Arranged	Arranged
ADHE_V 412-63F	ADHE_V	412		63F	An Overview of Adult Education	W2	Survey of adult education theory and practice in Canada and the world. The focus is on the purpose and participation in, adult education, characteristics of learners, and the training of adult educators. [3-0-0; 3-0-0]	Online Learning	Arranged	Arranged
AFST_V 250-A_101	AFST_V	250	A	A_101	Introduction to African Studies	W1	Cultural, historical, and geographical issues of African Studies.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
AFST_V 250-A_201	AFST_V	250	A	A_201	Introduction to African Studies	W2	Cultural, historical, and geographical issues of African Studies.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
AFST_V 308-201	AFST_V	308		201	The Languages of Africa	W2	Linguistic survey of the languages of Africa, including typological and historical connections between languages, individual and comparative surveys of sound systems, word structures, sentence structures, semantics, and sociolinguistic properties of a representative selection of languages. Credit will be granted for only one of AFST 308 or LING 308 Equivalency: LING 308	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
AFST_V 309-201	AFST_V	309		201	Arts of Africa and the African Diasporas	W2	Comparative exploration of art practices and their relationship to colonial and postcolonial histories. Credit will be granted for only one of AFST 309 or ARTH 309. Equivalency: ARTH 309	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
AFST_V 350-A_101	AFST_V	350	A	A_101	Topics in African Studies	W1	Topics will vary from year to year. Consult the program website ( <a href="https://africanstudies.arts.ubc.ca">https://africanstudies.arts.ubc.ca</a> ) for further details.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
AFST_V 352-A_201	AFST_V	352	A	A_201	Perspectives in African Studies: A Social Science Approach	W2	Major issues and theoretical approaches.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.

AFST_V 370-A_201	AFST_V	370	A	A_201	Literatures and Cultures of Africa and/or the Middle East	W2	Literary and cultural works from Africa; some sections include Africa and the Middle East. Multiple perspectives on local, national, and global issues including colonialism, migration, transnationalism, education, art and politics. May include fiction, poetry, drama, digital media, and other forms. Consult department website for current year's offerings. Credit will be granted for only one of AFST 370 or ENGL 370. Prerequisite: For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended. Equivalency: ENGL 370	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
AFST_V 450-R_201	AFST_V	450	R	R_201	African Diasporic Culture in African Canadian Communities	W2	African diasporic culture in Canadian society, fostering dialogue with members of African Canadian communities on cultural values, traditions, memory, adaptation and change.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
AMNE_V 101-001	AMNE_V	101		001	Greek and Latin Roots of English	W1	Greek and Latin roots of English vocabulary and grammar, with an introduction to language history and Greek and Roman culture. Credit will be granted for only one of CLST 101 or AMNE 101.	Online Learning	Arranged	Arranged
AMNE_V 101-002	AMNE_V	101		002	Greek and Latin Roots of English	W2	Greek and Latin roots of English vocabulary and grammar, with an introduction to language history and Greek and Roman culture. Credit will be granted for only one of CLST 101 or AMNE 101.	Online Learning	Arranged	Arranged
AMNE_V 101-DNU_001	AMNE_V	101		DNU_001	Greek and Latin Roots of English	W2	Greek and Latin roots of English vocabulary and grammar, with an introduction to language history and Greek and Roman culture. Credit will be granted for only one of CLST 101 or AMNE 101.	In Person Learning	Arranged	Arranged
AMNE_V 151-001	AMNE_V	151		001	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
AMNE_V 151-002	AMNE_V	151		002	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
AMNE_V 151-003	AMNE_V	151		003	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	Online Learning	Arranged	Arranged
AMNE_V 151-004	AMNE_V	151		004	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Arranged	Arranged
AMNE_V 151-D01	AMNE_V	151		D01	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 151-D02	AMNE_V	151		D02	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 151-D03	AMNE_V	151		D03	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 151-D04	AMNE_V	151		D04	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
AMNE_V 151-D05	AMNE_V	151		D05	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 151-D06	AMNE_V	151		D06	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 151-D07	AMNE_V	151		D07	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 151-D08	AMNE_V	151		D08	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
AMNE_V 151-D09	AMNE_V	151		D09	Greek and Roman Mythology	W1	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
AMNE_V 151-D10	AMNE_V	151		D10	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 151-D11	AMNE_V	151		D11	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 151-D12	AMNE_V	151		D12	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 151-D13	AMNE_V	151		D13	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.

AMNE_V 151-D14	AMNE_V	151	D14	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 151-D15	AMNE_V	151	D15	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
AMNE_V 151-D16	AMNE_V	151	D16	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 151-D17	AMNE_V	151	D17	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 151-D18	AMNE_V	151	D18	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
AMNE_V 151-D19	AMNE_V	151	D19	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	Online Learning	Arranged	Arranged
AMNE_V 151-D20	AMNE_V	151	D20	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	Online Learning	Arranged	Arranged
AMNE_V 151-D21	AMNE_V	151	D21	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	Online Learning	Arranged	Arranged
AMNE_V 151-D22	AMNE_V	151	D22	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	Online Learning	Arranged	Arranged
AMNE_V 151-DNU_002	AMNE_V	151	DNU_002	Greek and Roman Mythology	W2	Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151.	In Person Learning	Arranged	Arranged
AMNE_V 160-001	AMNE_V	160	001	Introduction to Religions: Judaism, Christianity, Islam	W1	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
AMNE_V 160-002	AMNE_V	160	002	Introduction to Religions: Judaism, Christianity, Islam	W2	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
AMNE_V 160-L1A	AMNE_V	160	L1A	Introduction to Religions: Judaism, Christianity, Islam	W1	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
AMNE_V 160-L1B	AMNE_V	160	L1B	Introduction to Religions: Judaism, Christianity, Islam	W1	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 160-L1C	AMNE_V	160	L1C	Introduction to Religions: Judaism, Christianity, Islam	W1	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 160-L1D	AMNE_V	160	L1D	Introduction to Religions: Judaism, Christianity, Islam	W1	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Arranged	Arranged
AMNE_V 160-L2A	AMNE_V	160	L2A	Introduction to Religions: Judaism, Christianity, Islam	W2	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 160-L2B	AMNE_V	160	L2B	Introduction to Religions: Judaism, Christianity, Islam	W2	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
AMNE_V 160-L2C	AMNE_V	160	L2C	Introduction to Religions: Judaism, Christianity, Islam	W2	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
AMNE_V 160-L2D	AMNE_V	160	L2D	Introduction to Religions: Judaism, Christianity, Islam	W2	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RELG 101, AMNE 160, or RGST 160. Equivalency: RGST 160	In Person Learning	Arranged	Arranged
AMNE_V 170-001	AMNE_V	170	001	Temples, Tombs, and Tyrants: The Archaeology of the Middle East, Greece, and Rome	W1	The rise of civilizations, cultural interconnections, and power dynamics in the ancient Middle East (including Egypt), Greece, and Rome (10,000 BCE - 300 CE). Archaeological methods and interpretation, and analysis of ancient artifacts in UBC collections. Credit will be granted for only one of CNRS 104 or AMNE 170.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 170-002	AMNE_V	170	002	Temples, Tombs, and Tyrants: The Archaeology of the Middle East, Greece, and Rome	W2	The rise of civilizations, cultural interconnections, and power dynamics in the ancient Middle East (including Egypt), Greece, and Rome (10,000 BCE - 300 CE). Archaeological methods and interpretation, and analysis of ancient artifacts in UBC collections. Credit will be granted for only one of CNRS 104 or AMNE 170.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 200-001	AMNE_V	200	001	Approaching the Ancient Mediterranean & Near East	W1	Orientation to the peoples, places, and traditions of the ancient Mediterranean and Near East, and to analyzing different forms of source material (historical, literary, archaeological) from different perspectives.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.

AMNE_V 215-001	AMNE_V	215	001	Ancient Greece	W2	A survey of the ancient Greek world from the Minoan and Mycenaean (about 2000-1000 BCE) to the Hellenistic Period (323-30 BCE). Credit will be granted for only one of CLST 231 or AMNE 215.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 216-001	AMNE_V	216	001	Ancient Rome	W1	A survey of the ancient Roman world from the foundation of the city to the death of Constantine. Credit will be granted for only one of CLST 232 or AMNE 216.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
AMNE_V 225-001	AMNE_V	225	001	Gladiators, Games, and Spectacle in the Greek and Roman World	W2	History, development, and social function of various forms of spectacle in ancient Greece and Rome, from the Olympic games to the Roman arena. Credit will be granted for only one of CLST 260 or AMNE 225.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 235-001	AMNE_V	235	001	Greek Philosophy I	W1	The Pre-Socratics; Socrates; Sophists; Plato. Recommended as preparation for AMNE 236/PHIL 212 and PHIL 310. Credit will be granted for only one of CLST 211, AMNE 235 or PHIL 211. Equivalency: PHIL211	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
AMNE_V 251-001	AMNE_V	251	001	Near Eastern and Biblical Mythology	W1	An introduction to the world of Near Eastern mythology, from the Gilgamesh Epic to the Book of Genesis and beyond. Credit will be granted for only one of RELG 201 or AMNE 251.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
AMNE_V 251-002	AMNE_V	251	002	Near Eastern and Biblical Mythology	W2	An introduction to the world of Near Eastern mythology, from the Gilgamesh Epic to the Book of Genesis and beyond. Credit will be granted for only one of RELG 201 or AMNE 251.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 251-003	AMNE_V	251	003	Near Eastern and Biblical Mythology	W2	An introduction to the world of Near Eastern mythology, from the Gilgamesh Epic to the Book of Genesis and beyond. Credit will be granted for only one of RELG 201 or AMNE 251.	In Person Learning	Arranged	Arranged
AMNE_V 260-001	AMNE_V	260	001	Scriptures of the Near East	W1	An introduction to the scriptures of Judaism, Christianity, and Islam. Credit will be granted for only one of RELG 203 or AMNE 260.	In Person Learning	Arranged	Arranged
AMNE_V 260-002	AMNE_V	260	002	Scriptures of the Near East	W2	An introduction to the scriptures of Judaism, Christianity, and Islam. Credit will be granted for only one of RELG 203 or AMNE 260.	In Person Learning	Arranged	Arranged
AMNE_V 262-001	AMNE_V	262	001	Introduction to Judaism and its Texts	W1	What is Judaism? An overview of the key texts that have defined the Jewish religion, from the Hebrew Bible through works of contemporary thinkers. Recommended as a basis for upper-level courses in religious studies. Credit will be granted for only one of RELG 206 or AMNE 262.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
AMNE_V 265-001	AMNE_V	265	001	History of Christianity to 800 CE	W1	An introduction to the history of Christianity from its origins with Jesus through the coronation of Charlemagne as Roman Emperor in 800 CE.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 278-001	AMNE_V	278	001	The Archaeology of Life and Death in the Roman Empire	W2	The lives of non-elite individuals and groups living under the Roman Empire, seen through material evidence and its interpretation. Identity, urbanism, economy, agriculture, diet, religion, Romanization, and burial. CNRS 104, AMNE 170 or ARCL 203 recommended as preparation. Credit will be granted for only one of CNRS 206 or AMNE 278.	In Person Learning	Arranged	Arranged
AMNE_V 279-001	AMNE_V	279	001	Byzantium: Arts of an Empire	W1	Art, architecture, and material culture of the Byzantine Empire situated in the eastern Mediterranean (c. 300-1453); focus on social and cultural contexts of artistic production, including interactions with neighboring cultures. Credit will be granted for only one of CNRS 207, AMNE 279 or ARTH 210. Equivalency: ARTH210	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
AMNE_V 300-001	AMNE_V	300	001	Uses and Abuses of Antiquity	W2	Modern receptions and engagements with literature, history, philosophy, religion, archaeology, and art of the ancient Mediterranean and Near East with a focus on public writing. Prerequisite: Second-year standing or higher. AMNE 200 is recommended.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
AMNE_V 301-001	AMNE_V	301	001	The Technical Terms of Medicine and Biological Science	W1	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-002	AMNE_V	301	002	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-003	AMNE_V	301	003	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	In Person Learning	Arranged	Arranged
AMNE_V 301-004	AMNE_V	301	004	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	In Person Learning	Arranged	Arranged
AMNE_V 301-T01	AMNE_V	301	T01	The Technical Terms of Medicine and Biological Science	W1	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-T02	AMNE_V	301	T02	The Technical Terms of Medicine and Biological Science	W1	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-T03	AMNE_V	301	T03	The Technical Terms of Medicine and Biological Science	W1	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-T04	AMNE_V	301	T04	The Technical Terms of Medicine and Biological Science	W1	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged

AMNE_V 301-T05	AMNE_V	301	T05	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-T06	AMNE_V	301	T06	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-T07	AMNE_V	301	T07	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-T08	AMNE_V	301	T08	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	Online Learning	Arranged	Arranged
AMNE_V 301-T09	AMNE_V	301	T09	The Technical Terms of Medicine and Biological Science	W1	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	In Person Learning	Arranged	Arranged
AMNE_V 301-T10	AMNE_V	301	T10	The Technical Terms of Medicine and Biological Science	W2	Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.	In Person Learning	Arranged	Arranged
AMNE_V 306-001	AMNE_V	306	001	Ancient Technology: Greece and Rome	W1	The origins, achievements, and social impacts of applied technology in the Greek and Roman world from the Bronze Age to Late Antiquity (c. 1500 BCE - 400 CE), with special attention to archaeological evidence. Credit will be granted for only one of CLST 306 or AMNE 306.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
AMNE_V 306-002	AMNE_V	306	002	Ancient Technology: Greece and Rome	W2	The origins, achievements, and social impacts of applied technology in the Greek and Roman world from the Bronze Age to Late Antiquity (c. 1500 BCE - 400 CE), with special attention to archaeological evidence. Credit will be granted for only one of CLST 306 or AMNE 306.	In Person Learning	Arranged	Arranged
AMNE_V 312-001	AMNE_V	312	001	History of Ancient Egypt	W2	History and culture of Ancient Egyptian civilization from political, intellectual, social and environmental perspectives. Credit will be granted for only one of NEST 303 or AMNE 312.	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
AMNE_V 312-002	AMNE_V	312	002	History of Ancient Egypt	W2	History and culture of Ancient Egyptian civilization from political, intellectual, social and environmental perspectives. Credit will be granted for only one of NEST 303 or AMNE 312.	In Person Learning	Arranged	Arranged
AMNE_V 317-001	AMNE_V	317	001	Alexander the Great and his Empire	W1	The rise of Macedon under Philip II leading to its domination of Greece and the overthrow of the Persian Empire by his son, Alexander; the subsequent spread of Greek civilization in the East. Credit will be granted for only one of CLST 356 or AMNE 317. Prerequisite: One of CLST 231, AMNE 215.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
AMNE_V 317-002	AMNE_V	317	002	Alexander the Great and his Empire	W1	The rise of Macedon under Philip II leading to its domination of Greece and the overthrow of the Persian Empire by his son, Alexander; the subsequent spread of Greek civilization in the East. Credit will be granted for only one of CLST 356 or AMNE 317. Prerequisite: One of CLST 231, AMNE 215.	In Person Learning	Arranged	Arranged
AMNE_V 318-001	AMNE_V	318	001	The Roman Republic	W2	Rome from the foundation to the Augustan settlement. Constitutional development; the workings and failure of the Republican political system; acquisition and growth of Empire; the political, social, and economic consequences of imperialism. Credit will be granted for only one of CLST 352 or AMNE 318. Prerequisite: One of CLST 232, AMNE 216.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
AMNE_V 319-001	AMNE_V	319	001	The Early Roman Empire	W2	Roman imperial history during the Julio-Claudian and Flavian periods (30 BC-96 AD). Credit will be granted for only one of CLST 353 or AMNE 319. Prerequisite: One of CLST 232, AMNE 216.	In Person Learning	Arranged	Arranged
AMNE_V 320-A_001	AMNE_V	320	A	A_001	W2	Selected topics in the history and culture of the ancient Mediterranean, Near East and/or Egypt.	In Person Learning	Arranged	Arranged
AMNE_V 324-001	AMNE_V	324	001	Women in the Bronze Age, Classical Greek and Hellenistic Cultures	W1	The images projected in mythology, literature, and art are compared with realities of women's lives insofar as they can be reconstructed from historical, legal, and archaeological records. Credit will be granted for only one of CLST 311 or AMNE 324.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 325-001	AMNE_V	325	001	Women in the Roman World of Republican and Imperial Times	W1	Women in the Roman world in the culture of the Republic and the Empire. Literary, artistic, and mythological sources are compared and contrasted to historical, legal, and archaeological records. Credit will be granted for only one of CLST 312 or AMNE 325.	In Person Learning	Arranged	Arranged
AMNE_V 331-001	AMNE_V	331	001	Jewish Law	W2	History, sources, theoretical issues and current state of research about early Jewish legal traditions, focusing on close readings of classic primary texts in English translations. Credit will be granted for only one of RELG 335 or AMNE 331.	In Person Learning	Arranged	Arranged
AMNE_V 333-001	AMNE_V	333	001	Roman Law	W1	The development of Roman private law during the classical period with special attention to family law, contract and delict. Credit will be granted for only one of CLST 308 or AMNE 333.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
AMNE_V 341-001	AMNE_V	341	001	Sex, Lies, and Violence in the Hebrew Bible	W1	An exploration of the Bible's dark side, with emphasis on texts that center on sex, deceit, and murder. Credit will be granted for only one of RELG 307 or AMNE 341.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 341-002	AMNE_V	341	002	Sex, Lies, and Violence in the Hebrew Bible	W2	An exploration of the Bible's dark side, with emphasis on texts that center on sex, deceit, and murder. Credit will be granted for only one of RELG 307 or AMNE 341.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
AMNE_V 342-001	AMNE_V	342	001	Translating the Bible	W1	Key issues involved in translating the Bible, with attention to gender, sexuality, race, ethnicity, religion, and colonialism.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
AMNE_V 346-001	AMNE_V	346	001	Latin Epic	W2	The development of the epic genre in Latin, with detailed study of Vergil's Aeneid, Ovid's Metamorphoses, and Lucan's Civil War, in translation. Credit will be granted for only one of CLST 314 or AMNE 346. Prerequisite: Second-year standing or above.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.

AMNE_V 347-001	AMNE_V	347	001	Classical Comedy	W1	The plays of the Greek and Roman comic dramatists: Aristophanes, Menander, Plautus and Terence, in translation. Credit will be granted for only one of CLST 318 or AMNE 347. Prerequisite: Second-year standing and above.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
AMNE_V 356-001	AMNE_V	356	001	Roman Religion	W2	Roman religions between the ninth century BCE and the fourth century CE, including mystery religions, magic, emperor worship, and early Christianity, with particular attention devoted to the primary sources. Some knowledge of ancient Rome is recommended. Credit will be granted for only one of CLST 334 or AMNE 356.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.	
AMNE_V 361-001	AMNE_V	361	001	The Origins of Judaism	W2	Surveys the history of Jews and Judaism in the Second Temple era, from the destruction of the First Jerusalem Temple (586 B.C.E.) to the beginnings of the rabbinic movement (200 C.E.). Credit will be granted for only one of RELG 330 or AMNE 361.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
AMNE_V 364-001	AMNE_V	364	001	Magic, Prophecy, and Divination in the Biblical World	W2	Textual, contextual, and comparative exploration of the reciprocal relations between gods and people in the Hebrew Bible, Near Eastern ritual texts, and ancient experience. Credit will be granted for only one of RELG 305 or AMNE 364. Equivalency: RELG 305.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
AMNE_V 366-001	AMNE_V	366	001	The Origins of Christianity	W2	The origins of Christianity as reflected in early Christian literature of the first and early second centuries (including the New Testament). Credit will be granted for only one of RELG 317 or AMNE 366.	In Person Learning	Arranged	Arranged	
AMNE_V 369-001	AMNE_V	369	001	Jesus: Between History and Literature	W2	The figure of Jesus, his teachings, and his reception through literary and contextual analysis of the canonical and apocryphal gospels. Recommended: AMNE 264 or previous experience reading the New Testament. Credit will be granted for only one of RELG 414, AMNE 369, or AMNE 463.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
AMNE_V 371-001	AMNE_V	371	001	Ancient Egypt: The Archaeology of the Land of the Pharaohs	W1	The material remains of the ancient Egyptians from monumental tombs and temples to the artifacts of daily life; the development of Egyptian civilization from the rise of the first rulers to its incorporation into the Roman Empire. Credit will be granted for only one of NEST 304, AMNE 371 or ARTH 325. Equivalency: ARTH325	In Person Learning	Arranged	Arranged	
AMNE_V 372-001	AMNE_V	372	001	The Archaeology of Ancient Iraq and Syria: Babylon and Beyond	W1	An overview of the archaeology of the ancient Near East, with special emphasis on the civilizations of Mesopotamia, from the appearance of the first cities (c. 3400 BCE) to the end of the Persian period (c. 330 BCE). AMNE 170 recommended as preparation. Credit will be granted for only one of NEST 319, AMNE 372 or ARTH 319. Equivalency: ARTH319	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.	
AMNE_V 372-002	AMNE_V	372	002	The Archaeology of Ancient Iraq and Syria: Babylon and Beyond	W2	An overview of the archaeology of the ancient Near East, with special emphasis on the civilizations of Mesopotamia, from the appearance of the first cities (c. 3400 BCE) to the end of the Persian period (c. 330 BCE). AMNE 170 recommended as preparation. Credit will be granted for only one of NEST 319, AMNE 372 or ARTH 319. Equivalency: ARTH319	In Person Learning	Arranged	Arranged	
AMNE_V 376-001	AMNE_V	376	001	Greek Art and Architecture	W1	The visual culture of the ancient Greek world in the second and first millennia BCE, especially from c. 1000 to 30 BCE. Credit will be granted for only one of CLST 331, AMNE 376 or ARTH 331. Equivalency: ARTH 331	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
AMNE_V 377-001	AMNE_V	377	001	Roman Art and Architecture	W2	The visual culture of the ancient Roman world from the 8th century BCE to the 4th century CE. Credit will be granted for only one of CLST 332, AMNE 377 or ARTH 332. Equivalency: ARTH 332	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
AMNE_V 377-002	AMNE_V	377	002	Roman Art and Architecture	W2	The visual culture of the ancient Roman world from the 8th century BCE to the 4th century CE. Credit will be granted for only one of CLST 332, AMNE 377 or ARTH 332. Equivalency: ARTH 332	In Person Learning	Arranged	Arranged	
AMNE_V 392-001	AMNE_V	392	001	Introduction to Akkadian	W2	The basic grammar and introduction to the cuneiform writing system of the Akkadian language of the Ancient Near East. Credit will be granted for only one of NEST 315 or AMNE 392.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
AMNE_V 394-001	AMNE_V	394	001	Introduction to Aramaic	W2	Basics of Imperial Aramaic grammar and vocabulary, with readings from biblical and other ancient sources from the eastern Mediterranean and Southwest and Central Asia.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.	
AMNE_V 440-A_001	AMNE_V	440	A	A_001	Seminar in Ancient Mediterranean and Near Eastern Literature and Ideas	W2	Selected topics in the literature, ideas, and arts of the ancient Mediterranean, Near East and/or Egypt, with an emphasis on research. A maximum of 12 credits will be granted for AMNE 440 and CLST 402. Students should consult the AMNE Undergraduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AMNE_V 440-A_002	AMNE_V	440	A	A_002	Seminar in Ancient Mediterranean and Near Eastern Literature and Ideas	W2	Selected topics in the literature, ideas, and arts of the ancient Mediterranean, Near East and/or Egypt, with an emphasis on research. A maximum of 12 credits will be granted for AMNE 440 and CLST 402. Students should consult the AMNE Undergraduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AMNE_V 441-A_001	AMNE_V	441	A	A_001	Literature of Ancient Egypt or the Ancient Near East	W1	Topics in the main genres and texts of Egyptian and/or Ancient Near Eastern Literature and their modern interpretation. A maximum of 6 credits will be granted for AMNE 441, NEST 401, NEST 505, and AMNE 541. Students should consult the AMNE Undergraduate Advisor before registering.	In Person Learning	Arranged	Arranged
AMNE_V 461-B_001	AMNE_V	461	B	B_001	Seminar in Biblical Studies	W1	Selected topics in biblical and related texts. A maximum of 6 credits will be granted for AMNE 461 or RELG 475. Students should consult the AMNE Undergraduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
AMNE_V 462-C_001	AMNE_V	462	C	C_001	Seminar in Early Judaism	W2	Selected topics in Judaism and Hellenism, the rise of the synagogue, Jewish sects, the development of classical rabbinic literature (e.g., Mishnah, Talmud, Midrash). A maximum of 6 credits will be granted for AMNE 462 or RELG 407. Students should consult the AMNE Undergraduate Advisor before registering.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
AMNE_V 470-A_001	AMNE_V	470	A	A_001	Seminar in Ancient Mediterranean and Near Eastern Archaeology	W1	Selected topics in the art, archaeology and/or architecture of the ancient Mediterranean, Near East and/or Egypt, with an emphasis on research. A maximum of 12 credits will be granted for AMNE 470 and CLST 403. Students should consult the AMNE Undergraduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
AMNE_V 470-B_001	AMNE_V	470	B	B_001	Seminar in Ancient Mediterranean and Near Eastern Archaeology	W2	Selected topics in the art, archaeology and/or architecture of the ancient Mediterranean, Near East and/or Egypt, with an emphasis on research. A maximum of 12 credits will be granted for AMNE 470 and CLST 403. Students should consult the AMNE Undergraduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
AMNE_V 472-001	AMNE_V	472	001	The Archaeology of Ancient Cyprus	W2	An overview of the archaeology of ancient Cyprus from the island's initial colonization in the 10th millennium BCE through the period of its rule as part of the Roman Empire (4th century CE). Credit will be granted for only one of CNRS 410 or AMNE 472.	In Person Learning	Arranged	Arranged	

AMNE_V 499-001	AMNE_V	499		001	Honours Essay	W1-2	Credit will be granted for only one of CNRS 449 or AMNE 499. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AMNE_V 500-C_001	AMNE_V	500	C	C_001	Pro-Seminar in Ancient Mediterranean Studies: Selected Topics	W1	A maximum of 6 credits will be granted for AMNE 500 or CNRS 500. Students should consult the AMNE Graduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
AMNE_V 527-B_001	AMNE_V	527	B	B_001	Topics in Roman History and Culture	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
AMNE_V 540-A_001	AMNE_V	540	A	A_001	Topics in Literature, Art and Society	W2	A maximum of 12 credits will be granted for AMNE 540 or CNRS 503. Students should consult the AMNE Graduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AMNE_V 571-A_001	AMNE_V	571	A	A_001	The Archaeology of Urbanism	W2	Selected topics on the origins, development, and material manifestations of urbanism in the ancient Mediterranean, Near East and/or Egypt. A maximum of 6 credits will be granted for AMNE 571, NEST 506, AMNE 471 or NEST 402. Students should consult the AMNE Graduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
AMNE_V 572-B_001	AMNE_V	572	B	B_001	Topics in Near Eastern Archaeology	W2	A maximum of 6 credits will be granted for AMNE 572 or NEST 500. Students should consult the AMNE Graduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
AMNE_V 575-C_001	AMNE_V	575	C	C_001	Topics in Greek Archaeology	W1	A maximum of 6 credits will be granted for AMNE 575 or CLST 518. Students should consult with the AMNE Graduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
AMNE_V 590-B_001	AMNE_V	590	B	B_001	Topics in Identity	W2	A maximum of 12 credits will be granted for AMNE 590 or CNRS 505. Students should consult the AMNE Graduate Advisor before registering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
AMNE_V 599-001	AMNE_V	599		001	Master's Thesis	W1	Credit will be granted for only one of CNRS 549 or AMNE 599. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AMNE_V 599-002	AMNE_V	599		002	Master's Thesis	W2	Credit will be granted for only one of CNRS 549 or AMNE 599. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AMNE_V 599-003	AMNE_V	599		003	Master's Thesis	W1-2	Credit will be granted for only one of CNRS 549 or AMNE 599. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AMNE_V 699-001	AMNE_V	699		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
AMNE_V 699-002	AMNE_V	699		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
AMNE_V 699-003	AMNE_V	699		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
ANAT_V 392-001	ANAT_V	392		001	Gross Anatomy of the Limbs and Trunk	W1	Lectures and laboratory sessions on the human gross and functional anatomy of the limbs and trunk. The course includes the study of predissected specimens. For credit only in the Department of Physical Therapy.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
ANAT_V 392-L01	ANAT_V	392		L01	Gross Anatomy of the Limbs and Trunk	W1	Lectures and laboratory sessions on the human gross and functional anatomy of the limbs and trunk. The course includes the study of predissected specimens. For credit only in the Department of Physical Therapy.	In Person Learning	Tue Thu	9:30 a.m. - 12:00 p.m.
ANAT_V 448-J_002	ANAT_V	448	J	J_002	Directed Studies in Anatomy	W1-2	Permission of the Head and supervisor required.	In Person Learning	Arranged	Arranged
ANAT_V 448-K_002	ANAT_V	448	K	K_002	Directed Studies in Anatomy	W1-2	Permission of the Head and supervisor required.	In Person Learning	Arranged	Arranged
ANAT_V 448-K_003	ANAT_V	448	K	K_003	Directed Studies in Anatomy	W1	Permission of the Head and supervisor required.	In Person Learning	Arranged	Arranged
ANAT_V 448-L_001	ANAT_V	448	L	L_001	Directed Studies in Anatomy	W1-2	Permission of the Head and supervisor required.	In Person Learning	Arranged	Arranged
ANAT_V 448-N_001	ANAT_V	448	N	N_001	Directed Studies in Anatomy	W1-2	Permission of the Head and supervisor required.	In Person Learning	Arranged	Arranged
ANAT_V 504-001	ANAT_V	504		001	Cell Structure and Function	W1-2	Seminar discussions of current topics in vertebrate cell biology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

ANAT_V 504-002	ANAT_V	504	002	Cell Structure and Function	W2	Seminar discussions of current topics in vertebrate cell biology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ANAT_V 548-A_001	ANAT_V	548	A	A_001	Directed Studies in Anatomy & Cell Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANAT_V 548-A_002	ANAT_V	548	A	A_002	Directed Studies in Anatomy & Cell Biology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANAT_V 548-A_003	ANAT_V	548	A	A_003	Directed Studies in Anatomy & Cell Biology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANAT_V 548-B_004	ANAT_V	548	B	B_004	Directed Studies in Anatomy & Cell Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANAT_V 548-B_005	ANAT_V	548	B	B_005	Directed Studies in Anatomy & Cell Biology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANAT_V 548-C_006	ANAT_V	548	C	C_006	Directed Studies in Anatomy & Cell Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANAT_V 548-D_003	ANAT_V	548	D	D_003	Directed Studies in Anatomy & Cell Biology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANAT_V 549-001	ANAT_V	549	001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ANAT_V 549-002	ANAT_V	549	002	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ANAT_V 549-003	ANAT_V	549	003	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ANAT_V 550-001	ANAT_V	550	001	Current Topics in the Morphological Sciences	W1-2	Lectures, demonstrations, discussions and student seminars on selected and current topics in cell biology and the anatomical sciences. Attendance is required of all M.Sc. and Ph.D. students in Anatomy & Cell Biology. This course is not eligible for Credit/D/Fail grading. [1-0-0] Prerequisite: Students must be registered in graduate-level studies in Anatomy & Cell Biology.	In Person Learning	Arranged	Arranged	
ANAT_V 590-001	ANAT_V	590	001	Introduction to Functional Human Anatomy: Survey of Microscopic Anatomy, Neuroanatomy and Gross Anatomy	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ANAT_V 649-001	ANAT_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
ANAT_V 649-002	ANAT_V	649	002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
ANAT_V 649-003	ANAT_V	649	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
ANTH_V 100-A_001	ANTH_V	100	A	A_001	Introduction to Cultural Anthropology	W1	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Tue Thu	4:00 p.m. - 5:00 p.m.
ANTH_V 100-A_002	ANTH_V	100	A	A_002	Introduction to Cultural Anthropology	W1	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
ANTH_V 100-A_003	ANTH_V	100	A	A_003	Introduction to Cultural Anthropology	W1	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Mon Wed	12:00 p.m. - 1:00 p.m.
ANTH_V 100-A_004	ANTH_V	100	A	A_004	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	Online Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
ANTH_V 100-A_005	ANTH_V	100	A	A_005	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
ANTH_V 100-A_D1A	ANTH_V	100	A	A_D1A	Introduction to Cultural Anthropology	W1	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.



ANTH_V 100-A_D4C	ANTH_V	100	A	A_D4C	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	Online Learning	Fri	11:00 a.m. - 12:00 p.m.
ANTH_V 100-A_D4D	ANTH_V	100	A	A_D4D	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	Online Learning	Fri	12:00 p.m. - 1:00 p.m.
ANTH_V 100-A_D4E	ANTH_V	100	A	A_D4E	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	Online Learning	Fri	1:00 p.m. - 2:00 p.m.
ANTH_V 100-A_D4F	ANTH_V	100	A	A_D4F	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	Online Learning	Fri	2:00 p.m. - 3:00 p.m.
ANTH_V 100-A_D5A	ANTH_V	100	A	A_D5A	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
ANTH_V 100-A_D5B	ANTH_V	100	A	A_D5B	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
ANTH_V 100-A_D5C	ANTH_V	100	A	A_D5C	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
ANTH_V 100-A_D5D	ANTH_V	100	A	A_D5D	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
ANTH_V 100-A_D5E	ANTH_V	100	A	A_D5E	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
ANTH_V 100-A_D5F	ANTH_V	100	A	A_D5F	Introduction to Cultural Anthropology	W2	Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.	In Person Learning	Fri	5:00 p.m. - 6:00 p.m.
ANTH_V 202-B_001	ANTH_V	202	B	B_001	Contemporary Social Problems	W2	Cultural background to contemporary events; problems of nationalism and regional conflicts, economic and social development, gender, religion and social change. Course may stress a different region of the world in different years.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ANTH_V 202-F_001	ANTH_V	202	F	F_001	Contemporary Social Problems	W1	Cultural background to contemporary events; problems of nationalism and regional conflicts, economic and social development, gender, religion and social change. Course may stress a different region of the world in different years.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ANTH_V 203-001	ANTH_V	203		001	Anthropology of Drugs	W1	Illicit and/or licit drugs through historical, political, cultural and societal examples.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ANTH_V 203-002	ANTH_V	203		002	Anthropology of Drugs	W2	Illicit and/or licit drugs through historical, political, cultural and societal examples.	Hybrid Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ANTH_V 205-001	ANTH_V	205		001	The Anthropology of Insurrections and Revolution	W2	Analysis of insurrections and revolutions from a comparative perspective.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ANTH_V 206-001	ANTH_V	206		001	Witches, Vampires, and Zombies: Anthropology of the Supernatural	W1	Anthropological approaches to supernatural beliefs in both traditional and contemporary societies.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ANTH_V 206-002	ANTH_V	206		002	Witches, Vampires, and Zombies: Anthropology of the Supernatural	W2	Anthropological approaches to supernatural beliefs in both traditional and contemporary societies.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ANTH_V 210-001	ANTH_V	210		001	Eating Culture	W1	An anthropological exploration of how the collection, cultivation and consumption of food shapes human society and culture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ANTH_V 213-001	ANTH_V	213		001	Sex, Gender, and Culture	W2	An anthropological exploration of how understandings of sex and gender are culturally and historically shaped.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ANTH_V 215-001	ANTH_V	215		001	Japanese Popular Culture	W1	Television shows, dramas, movies, advertising, marketing, manga (Japanese style comics), anime (Japanese animation), theatrical forms, popular literature, popular music, fashion fads, tourism, toys, and sports.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
ANTH_V 217-001	ANTH_V	217		001	Culture and Communication	W2	The study of communication; the relation between communication and its cultural context with emphasis on verbal and non-verbal communication, cross-cultural communication, and cultural differences in the use of oral, literate, and electronic media.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ANTH_V 220-001	ANTH_V	220		001	Contemporary Indigenous Issues in British Columbia	W1	Anthropological perspectives on contemporary Indigenous issues in British Columbia.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ANTH_V 227-001	ANTH_V	227		001	Introduction to Medical Anthropology	W1	An examination of health and illness, in their social and cultural contexts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.

ANTH_V 242-001	ANTH_V	242		001	Visions of the Sacred: Introduction to the Anthropology of Religion	W2	Comparative, cross-cultural approach to human engagement with the sacred. Examines religions as complex systems that share certain fundamental common features.	In Person Learning	Arranged	Arranged
ANTH_V 300-A_001	ANTH_V	300	A	A_001	Contemporary Anthropological Theory	W1	Contemporary approaches to society and culture in anthropology. Prerequisite: ANTH 200 is recommended.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ANTH_V 300-A_002	ANTH_V	300	A	A_002	Contemporary Anthropological Theory	W2	Contemporary approaches to society and culture in anthropology. Prerequisite: ANTH 200 is recommended.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ANTH_V 303-E_001	ANTH_V	303	E	E_001	Ethnography of Special Areas	W1	A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings.	In Person Learning	Arranged	Arranged
ANTH_V 303-F_001	ANTH_V	303	F	F_001	Ethnography of Special Areas	W2	A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ANTH_V 303-G_001	ANTH_V	303	G	G_001	Ethnography of Special Areas	W2	A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ANTH_V 303-H_001	ANTH_V	303	H	H_001	Ethnography of Special Areas	W2	A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
ANTH_V 303-I_001	ANTH_V	303	I	I_001	Ethnography of Special Areas	W2	A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ANTH_V 303-J_001	ANTH_V	303	J	J_001	Ethnography of Special Areas	W1	A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ANTH_V 304-A_001	ANTH_V	304	A	A_001	Ethnography of the Northwest Coast	W1	Specialized study of ethnographic and theoretical problems of the region.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
ANTH_V 307-A_001	ANTH_V	307	A	A_001	Ethnography of Korea	W2	An exploration of ethnographic, topical, and theoretical issues.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ANTH_V 308-A_001	ANTH_V	308	A	A_001	Ethnography of Sub-Saharan Africa	W1	An exploration of ethnographic, topical, and theoretical issues.	In Person Learning	Arranged	Arranged
ANTH_V 317-A_001	ANTH_V	317	A	A_001	Linguistic Anthropology	W1	A survey of the ethnographic uses of language data and the techniques of linguistic analysis.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ANTH_V 329-A_001	ANTH_V	329	A	A_001	Contemporary Indigenous Issues in a Global Perspective	W1	Anthropological perspectives on contemporary issues of public policy, law, and political activity, as they affect Indigenous Peoples in Canada and globally. Prerequisite: ANTH 220 is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ANTH_V 353-001	ANTH_V	353		001	Ethnography of Latin America	W1	Indigenous peoples of Latin America, emphasizing both pre-Columbian cultural traditions and socioeconomic and cultural changes from the Colonial period to the present.	In Person Learning	Arranged	Arranged
ANTH_V 360-001	ANTH_V	360		001	Introduction to Ecological Anthropology	W1	Analysis of the relations between human societies and the ecological aspects of their environment (including technology, society, and ideology). Previously ANTH 460.	In Person Learning	Arranged	Arranged
ANTH_V 376-001	ANTH_V	376		001	Diasporas and Belonging: Anthropological Perspectives	W1	Examines how multiple generations of migrants find, build, and reimagine what community and belonging are beyond the confines of the nation-state. Centres ethnographies of diasporic identity and personhood. Recommended: at least one 200-level social science course (e.g. ANTH, SOCI, GEOG, POLJ).	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ANTH_V 378-001	ANTH_V	378		001	Anthropology of Media	W2	Analysis of contemporary mass media and of the anthropological use of media (photography, film, digital audio and video, etc.).	Hybrid Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ANTH_V 400-A_001	ANTH_V	400	A	A_001	History of Anthropology	W1	The development of anthropological theory and practice in institutional contexts.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ANTH_V 400-A_002	ANTH_V	400	A	A_002	History of Anthropology	W2	The development of anthropological theory and practice in institutional contexts.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ANTH_V 404-A_001	ANTH_V	404	A	A_001	Ethnography in Circumpolar North: Comparative Perspectives.	W1	An examination of relationships between indigenous people and nation states in Greenland, Canada, Alaska and Siberia, using ethnographic methods.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ANTH_V 407-001	ANTH_V	407		001	Principles of Field Work	W2	An examination of field work as the basic setting for ethnographic research. Research design; relationships with study participants, field techniques, and data analysis and presentation.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ANTH_V 414-001	ANTH_V	414		001	Anthropology of Globalization	W2	Theories on the global flow of people, commodities, images, and ideas with critical ethnographic attention to the different ways people respond to globalization.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.

ANTH_V 415-A_001	ANTH_V	415	A	A_001	Religion and Society	W1	Comparative study of religious beliefs, practices, and movements; relations between religious, social, and political institutions; religion as a force for stability and change; anthropological/sociological theories of religion.	In Person Learning	Arranged	Arranged
ANTH_V 418-001	ANTH_V	418		001	Anthropological Statistics	W1	Applications of statistical techniques to quantitative and qualitative data in Anthropology.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ANTH_V 421-A_001	ANTH_V	421	A	A_001	The Anthropology of Place and Space	W1	An anthropological understanding of the spatial dimensions of social practice, and the relationships of space to culture, history, and power.	In Person Learning	Arranged	Arranged
ANTH_V 427-001	ANTH_V	427		001	Topics in Medical Anthropology	W1	Anthropological perspectives on health, illness, and disability as represented by classic and contemporary research in selected topics in medical anthropology including disease and human evolution, illness and human ecology, culture and epidemiology, ethnomedical systems, the relationship between folk and biomedicine and the cultural construction and social organization of health care, illness and disability. Specific content will vary from year to year. Consult the Department brochure.	In Person Learning	Arranged	Arranged
ANTH_V 429-001	ANTH_V	429		001	Global Health in Cross-Cultural Contexts	W1	Includes examination of the social and cultural dimensions of specific life-threatening emerging and re-emerging infectious diseases, the political economy of health, cultural interpretations of illness and healing, medical pluralism, therapy management, and the cultural construction of efficacy.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ANTH_V 431-A_001	ANTH_V	431	A	A_001	Museum Practice and Curatorship	W1-2	Management of museum collections and their public presentation, addressing questions of access, collaboration, and cultural property. The public interpretation of anthropological concepts and materials utilizing the programs and facilities of the Museum of Anthropology. Prerequisite: [ANTH341]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ANTH_V 433-A_001	ANTH_V	433	A	A_001	Directed Studies	W1	General reading and/or a research undertaking, with the agreement, and under the supervision, of a Department faculty member selected by the student. No more than six credits of Directed Studies may be taken for credit toward the Major or Honours program.	In Person Learning	Arranged	Arranged
ANTH_V 433-A_002	ANTH_V	433	A	A_002	Directed Studies	W2	General reading and/or a research undertaking, with the agreement, and under the supervision, of a Department faculty member selected by the student. No more than six credits of Directed Studies may be taken for credit toward the Major or Honours program.	In Person Learning	Arranged	Arranged
ANTH_V 433-A_003	ANTH_V	433	A	A_003	Directed Studies	W1-2	General reading and/or a research undertaking, with the agreement, and under the supervision, of a Department faculty member selected by the student. No more than six credits of Directed Studies may be taken for credit toward the Major or Honours program.	In Person Learning	Arranged	Arranged
ANTH_V 437-001	ANTH_V	437		001	Gardens of Culture: The Anthropology of Food Systems	W2	Anthropological approaches to foodways and agricultural sustainability, particularly small-scale producers and communities. Includes ethnographic analysis of food movements, food systems and the socio-economic contexts of food provisioning and food production. Recommended: Third year status.	In Person Learning	Arranged	Arranged
ANTH_V 449-A_001	ANTH_V	449	A	A_001	Honours Tutorial	W1	Will usually require the presentation of at least one research paper.	In Person Learning	Arranged	Arranged
ANTH_V 449-A_002	ANTH_V	449	A	A_002	Honours Tutorial	W2	Will usually require the presentation of at least one research paper.	In Person Learning	Arranged	Arranged
ANTH_V 449-A_003	ANTH_V	449	A	A_003	Honours Tutorial	W1-2	Will usually require the presentation of at least one research paper.	In Person Learning	Arranged	Arranged
ANTH_V 451-A_001	ANTH_V	451	A	A_001	Conservation of Organic Materials	W2	Conservation of organic materials within a museum environment; the nature of materials, mechanisms of deterioration and principles of preventive conservation. Recommended for students intending to work with cultural materials. Prerequisite: Permission of instructor required.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
ANTH_V 452-001	ANTH_V	452		001	Conservation of Inorganic Materials	W2	Conservation of inorganic materials within a museum environment; the nature of materials, mechanisms of deterioration and principles of preventive conservation. Recommended for students intending to work with cultural materials. Prerequisite: Permission of instructor is required.	In Person Learning	Arranged	Arranged
ANTH_V 461-001	ANTH_V	461		001	Anthropological Study of Local Ecological Knowledge	W2	Analysis of the concepts of ecological anthropology via the medium of local ecological knowledge. ANTH 360 is recommended as background.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
ANTH_V 472-001	ANTH_V	472		001	Anthropological Study of Social Inequality	W2	An anthropological perspective on the historical origins and theoretical explanations of social inequality.	In Person Learning	Arranged	Arranged
ANTH_V 475-001	ANTH_V	475		001	Racial and Sexual Politics of (Im)mobility	W2	Combined anthropological approaches with interdisciplinary theories to understand experiences of mobilities and immobilities shaped by race, gender, sexuality, citizenship and class. Recommended: ANTH 375 or 376, or other upper-level courses focused on migration, gender and sexuality, or social inequality.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ANTH_V 495-A_001	ANTH_V	495	A	A_001	Advanced Studies in Anthropology	W2	An intensive examination of selected topics in Anthropology. Consult the Department for this year's offerings.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
ANTH_V 495-D_001	ANTH_V	495	D	D_001	Advanced Studies in Anthropology	W1	An intensive examination of selected topics in Anthropology. Consult the Department for this year's offerings.	In Person Learning	Arranged	Arranged
ANTH_V 495-E_001	ANTH_V	495	E	E_001	Advanced Studies in Anthropology	W2	An intensive examination of selected topics in Anthropology. Consult the Department for this year's offerings.	In Person Learning	Arranged	Arranged
ANTH_V 500-001	ANTH_V	500		001	History of Anthropological Thought	W1-2	Various approaches to anthropology, from classical to contemporary. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.

ANTH_V 506-A_001	ANTH_V	506	A	A_001	Current Research in Anthropology	W1-2	The relationship between current theoretical issues and research methods. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.
ANTH_V 512-B_001	ANTH_V	512	B	B_001	Language and Culture	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
ANTH_V 516-001	ANTH_V	516		001	Qualitative Methods in Anthropology	W1	A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviewing, ethnographic semantics, life histories, componential analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ANTH_V 516-002	ANTH_V	516		002	Qualitative Methods in Anthropology	W2	A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviewing, ethnographic semantics, life histories, componential analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ANTH_V 517-001	ANTH_V	517		001	Archaeological Methods	W1	A discussion of selected basic data-gathering methods in their relation to the development of ideas about the archaeological record. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.
ANTH_V 518-A_001	ANTH_V	518	A	A_001	Museum Methods	W2	Analytical approaches to the study of museums and collections. Methods of field collecting, collections research, laboratory procedures, visitor studies, social organization of museum and related cultural industries, exhibit and program evaluation techniques and the ethics of museum research and practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ANTH_V 540-E_001	ANTH_V	540	E	E_001	Advanced Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
ANTH_V 540-F_001	ANTH_V	540	F	F_001	Advanced Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ANTH_V 540-G_001	ANTH_V	540	G	G_001	Advanced Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
ANTH_V 540-H_001	ANTH_V	540	H	H_001	Advanced Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
ANTH_V 545-A_001	ANTH_V	545	A	A_001	Graduate Research Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ANTH_V 545-A_002	ANTH_V	545	A	A_002	Graduate Research Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ANTH_V 545-A_003	ANTH_V	545	A	A_003	Graduate Research Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ANTH_V 549-A_001	ANTH_V	549	A	A_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANTH_V 549-A_002	ANTH_V	549	A	A_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANTH_V 549-A_003	ANTH_V	549	A	A_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANTH_V 549-B_001	ANTH_V	549	B	B_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANTH_V 549-B_002	ANTH_V	549	B	B_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ANTH_V 649-001	ANTH_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
ANTH_V 649-002	ANTH_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
ANTH_V 649-003	ANTH_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged



APBI_V 214-002	APBI_V	214	002	Animal Sheltering and Companion Animal Support Services	W2	History, philosophy, and current practices of animal shelters and companion animal support services, with a focus on emerging issues from a One Health/One Welfare perspective. Prerequisite: Second-year standing or higher.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
APBI_V 244-001	APBI_V	244	001	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
APBI_V 244-L01	APBI_V	244	L01	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
APBI_V 244-L02	APBI_V	244	L02	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
APBI_V 244-L03	APBI_V	244	L03	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
APBI_V 244-L04	APBI_V	244	L04	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
APBI_V 244-L05	APBI_V	244	L05	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
APBI_V 244-L06	APBI_V	244	L06	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
APBI_V 260-001	APBI_V	260	001	Agroecology I: Introduction to principles and techniques	W1	Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis and problem-based discussions.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
APBI_V 260-D01	APBI_V	260	D01	Agroecology I: Introduction to principles and techniques	W1	Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis and problem-based discussions.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
APBI_V 260-L01	APBI_V	260	L01	Agroecology I: Introduction to principles and techniques	W1	Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis and problem-based discussions.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
APBI_V 265-001	APBI_V	265	001	Sustainable Agriculture and Food Systems	W2	Principles and practices necessary to understand practical concerns of sustainable food systems. Students who already present credit for APBI 260 are not permitted to receive credit for APBI 265. [1-3-0]	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
APBI_V 290-001	APBI_V	290	001	Introductory Topics in Applied Biology	W1	Analysis and interpretation of current issues in applied biology. Topics will vary from year to year.	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
APBI_V 290-002	APBI_V	290	002	Introductory Topics in Applied Biology	W1	Analysis and interpretation of current issues in applied biology. Topics will vary from year to year.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
APBI_V 290-201	APBI_V	290	201	Introductory Topics in Applied Biology	W2	Analysis and interpretation of current issues in applied biology. Topics will vary from year to year.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
APBI_V 311-001	APBI_V	311	001	Comparative Cardiovascular, Respiratory and Osmoregulatory Physiology	W2	Cardiovascular, respiratory and osmoregulatory physiology of vertebrates. Prerequisite: BIOL 204 and one of BIOL 260, BIOL 361. And 3rd year standing. Equivalency: BIOL364	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
APBI_V 312-001	APBI_V	312	001	Reproductive and Digestive Physiology	W1	Reproductive and digestive physiology, and current technologies applied to these systems in domestic and wild animals. Prerequisite: One of BIOL 204, BIOL 260. 3rd year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
APBI_V 313-001	APBI_V	313	001	Experimental Analysis of Animal Behaviour	W1	Case studies will be used to discover how behavioural principles explain complexity in the behaviour of individual animals and contribute to our understanding of animal welfare. Prerequisite: Third-year standing or higher. One of PSYC 100, PSYC 101 or PSYC 102 recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
APBI_V 314-001	APBI_V	314	001	Animals and Society	W1	Contemporary use of animals for food production, companionship, recreation and science; social and ethical issues concerning human impacts on animals; animals in human culture; protection of animals by society and the law. Prerequisite: At least third-year standing in any faculty.	In Person Learning	Arranged	Arranged
APBI_V 314-003	APBI_V	314	003	Animals and Society	W2	Contemporary use of animals for food production, companionship, recreation and science; social and ethical issues concerning human impacts on animals; animals in human culture; protection of animals by society and the law. Prerequisite: At least third-year standing in any faculty.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
APBI_V 315-001	APBI_V	315	001	Animal Welfare and the Ethics of Animal Use	W2	Scientific assessment of animal well-being, ethical concepts applied to animal use, and animal welfare issues arising in agriculture, biomedical research and other areas. Credit will be granted for only one of APBI 315, ANSC 515, or AANB 515. [1-0-3] Prerequisite: At least third-year standing in any faculty.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
APBI_V 316-001	APBI_V	316	001	Equine Biology, Health and Welfare	W2	Anatomy, physiology, reproduction, nutrition of the horse; common disease pathology, prevention and treatments; equine behaviour. [3-0]	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.
APBI_V 317-002	APBI_V	317	002	Welfare and Ethics of using Animals in Science	W2	Historical and current debate, ethical perspectives, governance, and scientific understanding of experiences of animals in research.	Online Learning	Tue Thu	12:30 p.m. - 2:00 p.m.

APBI_V 318-001	APBI_V	318	001	Applied Plant Breeding	W1	Small-scale classical (i.e., non-biotechnological) plant breeding and seed saving. Practical approaches to crop improvement, designing and implementing a simple plant breeding program. Interactions between aquaculture and the environment. Current issues, comparison of systems, species, production methods, environments, and socioeconomics. Prerequisite: One of BIOL 230, APBI 260, APBI 265, CONS 330, ENVR 200, ENVR 300. and third year standing. Or permission of the instructor.	Online Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
APBI_V 319-001	APBI_V	319	001	Aquaculture and the Environment	W1		In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
APBI_V 324-001	APBI_V	324	001	Introduction to Seed Plant Taxonomy	W1	Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL324	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
APBI_V 324-L01	APBI_V	324	L01	Introduction to Seed Plant Taxonomy	W1	Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL324	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
APBI_V 324-L02	APBI_V	324	L02	Introduction to Seed Plant Taxonomy	W1	Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL324	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
APBI_V 327-001	APBI_V	327	001	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology and life-histories of insects; insect-plant relations. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL327	Hybrid Learning	Tue Thu	8:00 a.m. - 9:00 a.m.
APBI_V 327-L01	APBI_V	327	L01	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology and life-histories of insects; insect-plant relations. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL327	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
APBI_V 327-L02	APBI_V	327	L02	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology and life-histories of insects; insect-plant relations. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL327	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
APBI_V 327-L03	APBI_V	327	L03	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology and life-histories of insects; insect-plant relations. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL327	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.
APBI_V 327-L04	APBI_V	327	L04	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology and life-histories of insects; insect-plant relations. [2-3-0] Prerequisite: BIOL 121. Equivalency: BIOL327	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.
APBI_V 328-001	APBI_V	328	001	Weed Science	W1	Importance, identification, dissemination and biology of weeds; preventive, cultural, biological and chemical methods of control. [3-2-0] Equivalency: BIOL317	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
APBI_V 328-L01	APBI_V	328	L01	Weed Science	W1	Importance, identification, dissemination and biology of weeds; preventive, cultural, biological and chemical methods of control. [3-2-0] Equivalency: BIOL317	In Person Learning	Mon	12:00 p.m. - 1:30 p.m.
APBI_V 328-L02	APBI_V	328	L02	Weed Science	W1	Importance, identification, dissemination and biology of weeds; preventive, cultural, biological and chemical methods of control. [3-2-0] Equivalency: BIOL317	In Person Learning	Mon	1:30 p.m. - 3:00 p.m.
APBI_V 342-001	APBI_V	342	001	Soil Biology	W2	The diversity of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and reclamation; interactions between soil organisms; responses to environmental change. [2-3-0] Prerequisite: [BIOL121] Equivalency: FRST310	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
APBI_V 342-L01	APBI_V	342	L01	Soil Biology	W2	The diversity of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and reclamation; interactions between soil organisms; responses to environmental change. [2-3-0] Prerequisite: [BIOL121] Equivalency: FRST310	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
APBI_V 351-101	APBI_V	351	101	Plant Physiology	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-3-0] Prerequisite: BIOL 121 and either(a) CHEM 123 or (b) all of CHEM 111, CHEM 113. CHEM 233 is recommended. Equivalency: BIOL351, FRST311	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
APBI_V 351-L01	APBI_V	351	L01	Plant Physiology	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-3-0] Prerequisite: BIOL 121 and either(a) CHEM 123 or (b) all of CHEM 111, CHEM 113. CHEM 233 is recommended. Equivalency: BIOL351, FRST311	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
APBI_V 351-L02	APBI_V	351	L02	Plant Physiology	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-3-0] Prerequisite: BIOL 121 and either(a) CHEM 123 or (b) all of CHEM 111, CHEM 113. CHEM 233 is recommended. Equivalency: BIOL351, FRST311	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
APBI_V 351-L03	APBI_V	351	L03	Plant Physiology	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-3-0] Prerequisite: BIOL 121 and either(a) CHEM 123 or (b) all of CHEM 111, CHEM 113. CHEM 233 is recommended. Equivalency: BIOL351, FRST311	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
APBI_V 351-L04	APBI_V	351	L04	Plant Physiology	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-3-0] Prerequisite: BIOL 121 and either(a) CHEM 123 or (b) all of CHEM 111, CHEM 113. CHEM 233 is recommended. Equivalency: BIOL351, FRST311	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
APBI_V 360-001	APBI_V	360	001	Agroecology II: Ecology of Agricultural Systems	W2	A variety of ecological processes shape agricultural landscapes. Students will learn the research foundations of applied ecology in agriculture and how to read and critique the scientific literature in this field. Prerequisite: One of BIOL 230, APBI 260, APBI 265.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
APBI_V 361-199	APBI_V	361	199	Key Indicators of Agroecosystem Sustainability	W2	A detailed exploration of biophysical, economic, and social ecosystem sustainability indicators for primary production subsystems. [1-0-3]	Online Learning	Arranged	Arranged
APBI_V 398-001	APBI_V	398	001	Research Methods in Applied Biology	W1	Research methods including research design, scientific critique, writing proposals and reports, and oral presentation. Prerequisite: Third-year standing in the Applied Biology program or permission of the instructor.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.

APBI_V 401-001	APBI_V	401	001	Soil Processes	W1	Understanding environmental factors influencing soil-forming processes and their ecological implications. Credit will be granted for only one of SOIL 501 or APBI 401. Prerequisite: APBI 200.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
APBI_V 402-002	APBI_V	402	002	Sustainable Soil Management	W2	Application of fundamental, unifying, soil science principles in sustainable ecosystem management. Credit will be granted for only one of SOIL 502 or APBI 402. [1-0-3] Prerequisite: APBI 200.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
APBI_V 403-001	APBI_V	403	001	Soil Sampling, Analyses and Data Interpretation	W1	Field and laboratory analytical techniques in the chemical, biological and physical assessment of soils. Credit will be granted for only one of SOIL 503 or APBI 403. [1-3-0] Prerequisite: APBI 200.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
APBI_V 403-L01	APBI_V	403	L01	Soil Sampling, Analyses and Data Interpretation	W1	Field and laboratory analytical techniques in the chemical, biological and physical assessment of soils. Credit will be granted for only one of SOIL 503 or APBI 403. [1-3-0] Prerequisite: APBI 200.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
APBI_V 405-002	APBI_V	405	002	Plant-Water Relations for Sustainable Agriculture	W2	Plant water requirements for production and survival, physiological stress thresholds, soil-plant-atmosphere interactions, structure-function relationships, cutting-edge and traditional monitoring tools, precision agriculture, application for sustainable water management. Prerequisite: One of APBI 210, BIOL 210.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
APBI_V 406-001	APBI_V	406	001	Pollination Biology	W1	Fundamental research and topics in pollination biology related to various themes in applied biology including: natural selection, insect cognition, conservation and agriculture. Credit will be granted for only one of PLNT 506 or APBI 406. Prerequisite: One of APBI 260, APBI 265, BIOL 230.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
APBI_V 410-002	APBI_V	410	002	Applied Animal Health and Physiology	W1	Application of physiology and pathology principles to health and disease of domestic animals. [3-0-0] Prerequisite: BIOL 201 and one of APBI 311, CAPS 301.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
APBI_V 412-001	APBI_V	412	001	Belowground Ecosystems	W2	Concepts, methods, and applications of belowground ecology with emphasis on biotic interactions in soil; roles that aboveground and belowground communities play in regulating the structure and function of terrestrial ecosystems and their responses to global change. Credit will be granted for only one of FRST 512 or APBI 412 or CONS 412. [3-0-0] Prerequisite: Fourth year standing in a Bachelor of Science Program. Permission is required for registration. Equivalency: CONS 412	In Person Learning	Arranged	Arranged
APBI_V 414-001	APBI_V	414	001	Animals and Global Issues	W1	Research seminar integrating diverse information to address global animal issues including: animal-source foods and human health, environmental impact of livestock production, trade in exotic animals. [3-0-0] Prerequisite: One of APBI 314, APBI 315.	Hybrid Learning	Mon	1:00 p.m. - 4:00 p.m.
APBI_V 415-001	APBI_V	415	001	Applied Animal Behaviour	W2	Application of principles and research methods of animal behaviour to practical problems in the care of farm, companion, wild and research animals, and in animal training, and human-wildlife conflict. [3-0-0]	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
APBI_V 416-001	APBI_V	416	001	Compassionate Conservation	W1	Evaluation of humane treatment of individual animals living in the wild and managed within conservation biology. Assessment of attitudes and viewpoints of the role of animal welfare in conservation biology. Prerequisite: Third-year standing or higher. APBI 315 and BIOL 416 or CONS 330 recommended.	Hybrid Learning	Wed	10:00 a.m. - 1:00 p.m.
APBI_V 419-201	APBI_V	419	201	Fish Health	W2	Management of fish health in aquaculture; common fish pathogens, epidemiology, prevention, and treatment of diseases. Prerequisite: Third year standing or higher. One of APBI 311, BIOL 204 or BIOL 260. APBI 312 and APBI 418 strongly recommended.	Online Learning	Arranged	Arranged
APBI_V 422-001	APBI_V	422	001	Indigenous Food Systems in Canada	W1	Indigenous food systems are a complex, relational web of connections between land, culture, and spirit. Topics include: major elements of Indigenous food systems and present-day food stories from Indigenous communities across the country.. Prerequisite: LFS 350. Or third-year standing or higher.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
APBI_V 423-001	APBI_V	423	001	Ecological Restoration	W2	Perspectives and practices of ecological restoration in diverse ecosystems worldwide. Prerequisite: APBI 200 and one of FRST 201, APBI 260, BIOL 230. Equivalency: UFOR 403	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
APBI_V 426-001	APBI_V	426	001	Plant-Microbe Interactions	W1	Biology and physiology of selected plant-microbe relationships. Impacts of plant-microbe relationships on society. Prerequisite: BIOL 200 and one of BIOC 202, BIOC 203, BIOL 201, BIOL 233, BIOL 234, BIOL 260. Equivalency: BIOL421	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
APBI_V 426-T01	APBI_V	426	T01	Plant-Microbe Interactions	W1	Biology and physiology of selected plant-microbe relationships. Impacts of plant-microbe relationships on society. Prerequisite: BIOL 200 and one of BIOC 202, BIOC 203, BIOL 201, BIOL 233, BIOL 234, BIOL 260. Equivalency: BIOL421	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
APBI_V 427-101	APBI_V	427	101	Insect Ecology	W1	Behavioural, population, and community ecology of insects. Interaction between insects and plants and the application of the principals of insect ecology to biological control of insects and weeds. [3-0] Prerequisite: One of BIOL 205, BIOL 327, APBI 327. Equivalency: BIOL411	In Person Learning	Arranged	Arranged
APBI_V 427-201	APBI_V	427	201	Insect Ecology	W1	Behavioural, population, and community ecology of insects. Interaction between insects and plants and the application of the principals of insect ecology to biological control of insects and weeds. [3-0] Prerequisite: One of BIOL 205, BIOL 327, APBI 327. Equivalency: BIOL411	In Person Learning	Arranged	Arranged
APBI_V 428-201	APBI_V	428	201	Integrated Pest Management	W2	Development and implementation of multi-disciplinary pest management programs in agricultural crops. [3-2] Prerequisite: BIOL 121.	Online Learning	Arranged	Arranged
APBI_V 440-001	APBI_V	440	001	Plant Genomics	W1	Concepts, principles, and recent discoveries in genome structure and comparative genomics in plants with a focus on economically important plants; applications of genomics approaches to questions in plant genetics, evolution, and ecology. [3-0-0] Corequisite: BIOL 335. Equivalency: BIOL440	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
APBI_V 442-001	APBI_V	442	001	Wine Grape and Berry Biology	W1	Grapevine genetics, morphology, and physiology and major biological features of other important berry crops for British Columbia such as blueberry, cranberry, and raspberry. Credit will be granted for only one of APBI 442, APBI 443, or PLNT 542. Prerequisite: All of BIOL 112, BIOL 121 and one of BIOL 200, BIOL 201, APBI 210, BIOL 210.	In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.
APBI_V 444-001	APBI_V	444	001	Agroforestry	W1	Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and groupwork designing agroforestry systems in temperate and tropical contexts. Prerequisite: One of FRST 201, APBI 260. Equivalency: FRST444	In Person Learning	Arranged	Arranged

APBI_V 460-001	APBI_V	460	001	Agroecology III: Synthesis and evaluation	W1	The relationship between biological diversity and sustainability in food producing agroecosystems; emphasis on ecological similarities between natural ecosystems and managed agroecosystems. Prerequisite: APBI 360. or equivalent.	Online Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
APBI_V 463-002	APBI_V	463	002	Insects in Agroecosystems	W2	Insect ecology and evolutionary biology of pests, predators, pollinators and other insect groups in agroecosystems. Application to biodiversity management and sustainable agricultural practices. Prerequisite: One of APBI 327, BIOL 327 and one of BIOL 300, GEOG 374, FRST 231, LFS 252, STAT 200.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
APBI_V 465-001	APBI_V	465	001	Capstone in Sustainable Agriculture and Food Systems	W1	Integrates classroom and applied learning at the UBC Farm with design project. [1-3-0] Prerequisite: APBI 365.	In Person Learning	Arranged	Arranged	
APBI_V 490-B_102	APBI_V	490	B	B_102	Advanced Topics in Applied Biology	W1	Analysis and interpretation of current issues in applied biology. Prerequisite: 3rd year standing or higher.	In Person Learning	Arranged	Arranged
APBI_V 490-C_103	APBI_V	490	C	C_103	Advanced Topics in Applied Biology	W1	Analysis and interpretation of current issues in applied biology. Prerequisite: 3rd year standing or higher.	In Person Learning	Arranged	Arranged
APBI_V 490-D_201	APBI_V	490	D	D_201	Advanced Topics in Applied Biology	W2	Analysis and interpretation of current issues in applied biology. Prerequisite: 3rd year standing or higher.	Hybrid Learning	Arranged	Arranged
APBI_V 490-E_202	APBI_V	490	E	E_202	Advanced Topics in Applied Biology	W2	Analysis and interpretation of current issues in applied biology. Prerequisite: 3rd year standing or higher.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
APBI_V 490-F_104	APBI_V	490	F	F_104	Advanced Topics in Applied Biology	W1	Analysis and interpretation of current issues in applied biology. Prerequisite: 3rd year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
APBI_V 490-H_106	APBI_V	490	H	H_106	Advanced Topics in Applied Biology	W1	Analysis and interpretation of current issues in applied biology. Prerequisite: 3rd year standing or higher.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
APBI_V 496-A_001	APBI_V	496	A	A_001	Applied Animal Biology Practicum	W1	Application of principles and concepts of Applied Animal Biology to experiential learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third-year standing or higher. APBI 314 and/or APBI 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
APBI_V 496-A_002	APBI_V	496	A	A_002	Applied Animal Biology Practicum	W2	Application of principles and concepts of Applied Animal Biology to experiential learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third-year standing or higher. APBI 314 and/or APBI 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
APBI_V 496-B_001	APBI_V	496	B	B_001	Applied Animal Biology Practicum	W1	Application of principles and concepts of Applied Animal Biology to experiential learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third-year standing or higher. APBI 314 and/or APBI 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
APBI_V 496-B_002	APBI_V	496	B	B_002	Applied Animal Biology Practicum	W2	Application of principles and concepts of Applied Animal Biology to experiential learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third-year standing or higher. APBI 314 and/or APBI 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
APBI_V 497-A_001	APBI_V	497	A	A_001	Directed Studies	W1	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-A_002	APBI_V	497	A	A_002	Directed Studies	W2	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-B_001	APBI_V	497	B	B_001	Directed Studies	W1	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-B_002	APBI_V	497	B	B_002	Directed Studies	W2	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-C_001	APBI_V	497	C	C_001	Directed Studies	W1	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-C_002	APBI_V	497	C	C_002	Directed Studies	W2	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-D_001	APBI_V	497	D	D_001	Directed Studies	W1	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-D_002	APBI_V	497	D	D_002	Directed Studies	W2	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged

APBI_V 497-E_101	APBI_V	497	E	E_101	Directed Studies	W1	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 497-E_102	APBI_V	497	E	E_102	Directed Studies	W2	Prerequisite: Approval of program advisor.	In Person Learning	Arranged	Arranged
APBI_V 498-101	APBI_V	498		101	Undergraduate Essay	W1-2	Preparation of a comprehensive and analytical review of an approved topic under the supervision of a faculty member. Consultation with a program advisor is required.	In Person Learning	Arranged	Arranged
APBI_V 498-102	APBI_V	498		102	Undergraduate Essay	W2	Preparation of a comprehensive and analytical review of an approved topic under the supervision of a faculty member. Consultation with a program advisor is required.	In Person Learning	Arranged	Arranged
APBI_V 499-101	APBI_V	499		101	Undergraduate Thesis	W1	Design and execution of an experimental/analytical research project leading to the preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year.	In Person Learning	Arranged	Arranged
APBI_V 499-102	APBI_V	499		102	Undergraduate Thesis	W2	Design and execution of an experimental/analytical research project leading to the preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year.	In Person Learning	Arranged	Arranged
APPP_V 501-101	APPP_V	501		101	Project Management and Leadership	W2	Leading complex multi-disciplinary projects through management processes; project management frameworks, standards; core management processes of planning, scheduling, estimating, survey of communication, risk, and management issues; case studies in industry-relevant project management. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
APPP_V 502-101	APPP_V	502		101	Sustainability and Leadership	W1	Skills for leading change that influences triple-bottom-line; sustainability, change agency systems thinking; awareness and perspective for engagement and communication; adaptive leadership; change dynamics; cases studies in organizational and social change. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
APPP_V 502-102	APPP_V	502		102	Sustainability and Leadership	W1	Skills for leading change that influences triple-bottom-line; sustainability, change agency systems thinking; awareness and perspective for engagement and communication; adaptive leadership; change dynamics; cases studies in organizational and social change. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
APPP_V 503-101	APPP_V	503		101	Organizational Leadership	W2	Behaviour of people and groups and its application to management and leadership within professional organizations; motivation, group dynamics, and organizational structure; leadership styles and effectiveness; assessing organizational effectiveness. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
APPP_V 503-102	APPP_V	503		102	Organizational Leadership	W2	Behaviour of people and groups and its application to management and leadership within professional organizations; motivation, group dynamics, and organizational structure; leadership styles and effectiveness; assessing organizational effectiveness. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
APPP_V 505-101	APPP_V	505		101	Analytics and Interpretation for Applied Sciences	W2	Relevant measurable metrics of a project; data interpretation techniques; introduction to data visualization; overview of big data and predictive analytics; strategies related to metrics and data, ethical and privacy concerns. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
APPP_V 506-C_101	APPP_V	506	C	C_101	Capstone Project	W1	A capstone design project designed to give students experience in leading complex multidisciplinary projects relevant to their professional specialization. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APPP_V 506-C_103	APPP_V	506	C	C_103	Capstone Project	W1	A capstone design project designed to give students experience in leading complex multidisciplinary projects relevant to their professional specialization. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 100-101	APSC_V	100		101	Introduction to Engineering I	W1	An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Mon Fri	8:00 a.m. - 9:00 a.m.
APSC_V 100-102	APSC_V	100		102	Introduction to Engineering I	W1	An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Mon Fri	9:00 a.m. - 10:00 a.m.
APSC_V 100-103	APSC_V	100		103	Introduction to Engineering I	W1	An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Mon Fri	3:00 p.m. - 4:00 p.m.
APSC_V 100-104	APSC_V	100		104	Introduction to Engineering I	W1	An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Mon Fri	4:00 p.m. - 5:00 p.m.
APSC_V 100-9AR	APSC_V	100		9AR	Introduction to Engineering I	W1	An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Arranged	Arranged













APSC_V 160-L2O	APSC_V	160	L2O	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
APSC_V 160-L2P	APSC_V	160	L2P	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
APSC_V 160-L2Q	APSC_V	160	L2Q	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
APSC_V 160-L2R	APSC_V	160	L2R	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
APSC_V 160-L2S	APSC_V	160	L2S	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
APSC_V 160-L2U	APSC_V	160	L2U	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
APSC_V 160-L2V	APSC_V	160	L2V	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
APSC_V 160-L2X	APSC_V	160	L2X	Introduction to Computation in Engineering Design	W2	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
APSC_V 160-LAR	APSC_V	160	LAR	Introduction to Computation in Engineering Design	W1	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Arranged	Arranged
APSC_V 160-VE1	APSC_V	160	VE1	Introduction to Computation in Engineering Design	W1	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
APSC_V 160-VL1	APSC_V	160	VL1	Introduction to Computation in Engineering Design	W1	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
APSC_V 160-VL2	APSC_V	160	VL2	Introduction to Computation in Engineering Design	W1	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
APSC_V 160-VL3	APSC_V	160	VL3	Introduction to Computation in Engineering Design	W1	Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
APSC_V 172-VE1	APSC_V	172	VE1	Engineering Analysis I	W1	Functions, limits, differentiation, applications of derivatives, integration, applications of definite integrals. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
APSC_V 172-VT1	APSC_V	172	VT1	Engineering Analysis I	W1	Functions, limits, differentiation, applications of derivatives, integration, applications of definite integrals. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
APSC_V 172-VT2	APSC_V	172	VT2	Engineering Analysis I	W1	Functions, limits, differentiation, applications of derivatives, integration, applications of definite integrals. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
APSC_V 173-VE1	APSC_V	173	VE1	Engineering Analysis II	W2	Integrals and transcendental functions, techniques of integration, applications of integration, polar coordinates, infinite sequences and series, vectors and the geometry of space, and partial derivatives. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: APSC 172.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
APSC_V 173-VT1	APSC_V	173	VT1	Engineering Analysis II	W2	Integrals and transcendental functions, techniques of integration, applications of integration, polar coordinates, infinite sequences and series, vectors and the geometry of space, and partial derivatives. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: APSC 172.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
APSC_V 173-VT2	APSC_V	173	VT2	Engineering Analysis II	W2	Integrals and transcendental functions, techniques of integration, applications of integration, polar coordinates, infinite sequences and series, vectors and the geometry of space, and partial derivatives. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: APSC 172.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
APSC_V 176-001	APSC_V	176	001	Engineering Communication	W1-2	Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations. Community Service Learning projects are integrated into existing assignments. An LPI level 5 is required for registration in this course. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Arranged	Arranged
APSC_V 176-201	APSC_V	176	201	Engineering Communication	W2	Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations. Community Service Learning projects are integrated into existing assignments. An LPI level 5 is required for registration in this course. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Arranged	Arranged
APSC_V 176-202	APSC_V	176	202	Engineering Communication	W2	Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations. Community Service Learning projects are integrated into existing assignments. An LPI level 5 is required for registration in this course. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Arranged	Arranged
APSC_V 176-203	APSC_V	176	203	Engineering Communication	W2	Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations. Community Service Learning projects are integrated into existing assignments. An LPI level 5 is required for registration in this course. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Arranged	Arranged

APSC_V 176-204	APSC_V	176	204	Engineering Communication	W2	Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations. Community Service Learning projects are integrated into existing assignments. An LPI level 5 is required for registration in this course. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Arranged	Arranged
APSC_V 178-VE1	APSC_V	178	VE1	Electricity, Magnetism, and Waves	W2	Coulomb's law, electric field, Gauss' law, electric potential, conductors, capacitance, electric currents, resistance, DC circuits, magnetic fields and forces, sources of magnetic fields, electromagnetic induction, mechanical waves, electromagnetic waves, light propagation, geometrical optics. This course is not eligible for Credit/D/Fail grading. [4-0-2] Prerequisite: APSC 172. Corequisite: APSC 173.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
APSC_V 178-VT1	APSC_V	178	VT1	Electricity, Magnetism, and Waves	W2	Coulomb's law, electric field, Gauss' law, electric potential, conductors, capacitance, electric currents, resistance, DC circuits, magnetic fields and forces, sources of magnetic fields, electromagnetic induction, mechanical waves, electromagnetic waves, light propagation, geometrical optics. This course is not eligible for Credit/D/Fail grading. [4-0-2] Prerequisite: APSC 172. Corequisite: APSC 173.	In Person Learning	Mon	11:00 a.m. - 1:00 p.m.
APSC_V 178-VT2	APSC_V	178	VT2	Electricity, Magnetism, and Waves	W2	Coulomb's law, electric field, Gauss' law, electric potential, conductors, capacitance, electric currents, resistance, DC circuits, magnetic fields and forces, sources of magnetic fields, electromagnetic induction, mechanical waves, electromagnetic waves, light propagation, geometrical optics. This course is not eligible for Credit/D/Fail grading. [4-0-2] Prerequisite: APSC 172. Corequisite: APSC 173.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
APSC_V 182-VE1	APSC_V	182	VE1	Matter and Energy I	W1	Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
APSC_V 182-VL1	APSC_V	182	VL1	Matter and Energy I	W1	Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Wed (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 182-VL2	APSC_V	182	VL2	Matter and Energy I	W1	Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Wed (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 182-VL3	APSC_V	182	VL3	Matter and Energy I	W1	Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Wed (Alternate weeks)	11:00 a.m. - 1:00 p.m.
APSC_V 182-VT1	APSC_V	182	VT1	Matter and Energy I	W1	Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
APSC_V 182-VT2	APSC_V	182	VT2	Matter and Energy I	W1	Thermometry, states of matter and phase change, ideal and real gases, 1st law of thermodynamics, 2nd law of thermodynamics, liquids, solutions. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
APSC_V 183-VE1	APSC_V	183	VE1	Matter and Energy II	W2	Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Mon Fri	9:00 a.m. - 10:00 a.m.
APSC_V 183-VL1	APSC_V	183	VL1	Matter and Energy II	W2	Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Wed (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 183-VL2	APSC_V	183	VL2	Matter and Energy II	W2	Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Wed (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 183-VL3	APSC_V	183	VL3	Matter and Energy II	W2	Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Wed (Alternate weeks)	11:00 a.m. - 1:00 p.m.
APSC_V 183-VT1	APSC_V	183	VT1	Matter and Energy II	W2	Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
APSC_V 183-VT2	APSC_V	183	VT2	Matter and Energy II	W2	Atomic structures and bonding, solid crystals, chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry. This course is not eligible for Credit/D/Fail grading. [2-2*-2*]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
APSC_V 201-101	APSC_V	201	101	Technical Communication	W1	Written and oral communication in engineering. Report preparation, business correspondence, and oral presentation of technical material. Credit will be granted for only one of BMEG 201, CHBE 201, CIVL 203, CPEN 281, ELEC 281, IGEN 201, MANU 201, MECH 226, MTRL 201, or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
APSC_V 201-109	APSC_V	201	109	Technical Communication	W1	Written and oral communication in engineering. Report preparation, business correspondence, and oral presentation of technical material. Credit will be granted for only one of BMEG 201, CHBE 201, CIVL 203, CPEN 281, ELEC 281, IGEN 201, MANU 201, MECH 226, MTRL 201, or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
APSC_V 201-207	APSC_V	201	207	Technical Communication	W2	Written and oral communication in engineering. Report preparation, business correspondence, and oral presentation of technical material. Credit will be granted for only one of BMEG 201, CHBE 201, CIVL 203, CPEN 281, ELEC 281, IGEN 201, MANU 201, MECH 226, MTRL 201, or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
APSC_V 210-601	APSC_V	210	601	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged



APSC_V 210-623	APSC_V	210	623	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 210-624	APSC_V	210	624	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 210-625	APSC_V	210	625	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 210-626	APSC_V	210	626	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 210-627	APSC_V	210	627	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 210-JP1	APSC_V	210	JP1	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 210-JP2	APSC_V	210	JP2	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 210-VIS	APSC_V	210	VIS	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.	In Person Learning	Arranged	Arranged
APSC_V 262-101	APSC_V	262	101	Technology and Society II	W1	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	8:00 a.m. - 9:30 a.m.
APSC_V 262-102	APSC_V	262	102	Technology and Society II	W1	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	8:00 a.m. - 9:30 a.m.
APSC_V 262-103	APSC_V	262	103	Technology and Society II	W1	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
APSC_V 262-104	APSC_V	262	104	Technology and Society II	W1	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
APSC_V 262-105	APSC_V	262	105	Technology and Society II	W1	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
APSC_V 262-106	APSC_V	262	106	Technology and Society II	W1	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
APSC_V 262-202	APSC_V	262	202	Technology and Society II	W2	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.

APSC_V 262-203	APSC_V	262	203	Technology and Society II	W2	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	8:00 a.m. - 9:30 a.m.
APSC_V 262-204	APSC_V	262	204	Technology and Society II	W2	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue	8:00 a.m. - 9:30 a.m.
APSC_V 262-205	APSC_V	262	205	Technology and Society II	W2	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue	8:00 a.m. - 9:30 a.m.
APSC_V 262-206	APSC_V	262	206	Technology and Society II	W2	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue	8:00 a.m. - 9:30 a.m.
APSC_V 262-D01	APSC_V	262	D01	Technology and Society II	W1	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
APSC_V 262-D02	APSC_V	262	D02	Technology and Society II	W2	The course deals with the influence of technology on the social, political, economic and environmental aspects of society. The subject matter varies from year to year and differs from APSC 261. It may be taken as a continuation of APSC 261 or taken independently. Examples of subjects considered include pollution, work place health hazards, social impact of computers, problem solving, green revolution, technology and the third world, engineering ethics and others. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
APSC_V 263-201	APSC_V	263	201	Technology and Development	W2	Environmental, economic, political, and social aspects of appropriate technologies in the developing world. Appropriate technology and infrastructure, trade and finance, transportation, energy, water access, communication, health, and gender. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
APSC_V 263-T2A	APSC_V	263	T2A	Technology and Development	W2	Environmental, economic, political, and social aspects of appropriate technologies in the developing world. Appropriate technology and infrastructure, trade and finance, transportation, energy, water access, communication, health, and gender. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
APSC_V 278-101	APSC_V	278	101	Engineering Materials	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
APSC_V 278-201	APSC_V	278	201	Engineering Materials	W2	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
APSC_V 279-101	APSC_V	279	101	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Thu (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 279-102	APSC_V	279	102	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Thu (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 279-105	APSC_V	279	105	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Fri (Alternate weeks)	9:00 a.m. - 11:00 a.m.
APSC_V 279-106	APSC_V	279	106	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Tue (Alternate weeks)	10:00 a.m. - 12:00 p.m.
APSC_V 279-107	APSC_V	279	107	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Fri (Alternate weeks)	9:00 a.m. - 11:00 a.m.
APSC_V 279-108	APSC_V	279	108	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Tue (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 279-109	APSC_V	279	109	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Tue (Alternate weeks)	8:00 a.m. - 10:00 a.m.
APSC_V 279-110	APSC_V	279	110	Engineering Materials Laboratory	W1	Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fibre composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: APSC 278 may be taken.	In Person Learning	Wed (Alternate weeks)	8:00 a.m. - 10:00 a.m.





APSC_V 310-622	APSC_V	310	622	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-623	APSC_V	310	623	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-624	APSC_V	310	624	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-625	APSC_V	310	625	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-626	APSC_V	310	626	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-627	APSC_V	310	627	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-JP1	APSC_V	310	JP1	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-JP2	APSC_V	310	JP2	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 310-VIS	APSC_V	310	VIS	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 366-201	APSC_V	366	201	The Art of the Possible: An Introduction to Engineering for Non-Engineers	W2	An introduction to engineering for the non-specialist. A case-studies approach includes examples from sustainability-related technology, consumer products, structures, and energy conversion. [3-0-1]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
APSC_V 367-101	APSC_V	367	101	Humanitarian Engineering: Politics and Practice	W1	An interdisciplinary study of best practice, politics, and ethics associated with technical solutions to humanitarian assistance within Canada and abroad; examines policies used in aid and development contexts with emphasis on the application of engineering. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Restricted to students with a Major, Combined Major, Honours, Honours with, or Minor specialization in Political Science or International Relations, or at least 3rd year standing in any BASC program. Credit will be granted for only one of POLI 371 or APSC 367. Equivalency: POLI 371	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.
APSC_V 377-101	APSC_V	377	101	Nuclear Weapons and Arms Control	W1	The evolution and contemporary significance of nuclear weapons and arms control policy and technology from the perspective of the physical and life sciences and the social sciences and humanities. Recommended pre-requisite: third-year standing in B.A. or B.Sc. programs, or second-year standing in B.A.Sc. program. Credit will be granted for only one of APSC 377 or POLI 377. Equivalency: POLI 377	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
APSC_V 383-101	APSC_V	383	101	Prototyping	W1	Systematic approach and use of tools for prototyping. Using software, electronics, and physical components for practical advancement of initiatives in innovation, product development market identification, and problem solving. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
APSC_V 402-001	APSC_V	402	001	Living Language: Science and Society	W1	Multi-disciplinary course in which students, individually and in groups, examine, integrate and apply subject-specific knowledge through the lens of language and the framework of the language sciences, with a focus on themes of real-world importance. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing or permission of the instructor. Equivalency: ASTU402, FRST402, LFS 402, LLED402, PHAR402.	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
APSC_V 410-601	APSC_V	410	601	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 410-602	APSC_V	410	602	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 410-603	APSC_V	410	603	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged









APSC_V 412-623	APSC_V	412	623	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 412-624	APSC_V	412	624	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 412-625	APSC_V	412	625	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 412-626	APSC_V	412	626	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 412-627	APSC_V	412	627	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 412-JP1	APSC_V	412	JP1	Co-operative Education Work Term	W1	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 412-JP2	APSC_V	412	JP2	Co-operative Education Work Term	W2	Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 440-201	APSC_V	440	201	Management Fundamentals for Technology-Based Product Marketing and Development	W2	Management topics are presented from the perspective of technology-based industrial practice; project management, marketing and marketing planning, product development and commercialization, introduction to quality management, teamwork and effective individual participation. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing in Engineering.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
APSC_V 450-101	APSC_V	450	101	Professional Engineering Practice	W1	Legislation affecting the practice of engineering; ethical principles and responsibilities. Management of engineering enterprises; labour relations, safety and environmental legislation. Restricted to engineering undergraduate students in the final year of their program. This course is not eligible for Credit/D/Fail grading. [2-0-0]	Online Learning	Arranged	Arranged
APSC_V 450-201	APSC_V	450	201	Professional Engineering Practice	W2	Legislation affecting the practice of engineering; ethical principles and responsibilities. Management of engineering enterprises; labour relations, safety and environmental legislation. Restricted to engineering undergraduate students in the final year of their program. This course is not eligible for Credit/D/Fail grading. [2-0-0]	Online Learning	Arranged	Arranged
APSC_V 450-202	APSC_V	450	202	Professional Engineering Practice	W2	Legislation affecting the practice of engineering; ethical principles and responsibilities. Management of engineering enterprises; labour relations, safety and environmental legislation. Restricted to engineering undergraduate students in the final year of their program. This course is not eligible for Credit/D/Fail grading. [2-0-0]	In Person Learning	Arranged	Arranged
APSC_V 450-203	APSC_V	450	203	Professional Engineering Practice	W2	Legislation affecting the practice of engineering; ethical principles and responsibilities. Management of engineering enterprises; labour relations, safety and environmental legislation. Restricted to engineering undergraduate students in the final year of their program. This course is not eligible for Credit/D/Fail grading. [2-0-0]	In Person Learning	Arranged	Arranged
APSC_V 486-001	APSC_V	486	001	New Venture Design	W1-2	Teams comprising students in APSC 486 and COMM 466 create a business plan and a prototype or engineering solution of a novel product, process, or process component. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0]	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
APSC_V 486-002	APSC_V	486	002	New Venture Design	W1-2	Teams comprising students in APSC 486 and COMM 466 create a business plan and a prototype or engineering solution of a novel product, process, or process component. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0]	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
APSC_V 496-A_001	APSC_V	496	A	A_001	W1-2	Projects involving students from several departments. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
APSC_V 496-E_001	APSC_V	496	E	E_001	W1-2	Projects involving students from several departments. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
APSC_V 496-E_002	APSC_V	496	E	E_002	W1-2	Projects involving students from several departments. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
APSC_V 520-100	APSC_V	520	100	Co-operative Education Work Term I	W1-2	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 520-101	APSC_V	520	101	Co-operative Education Work Term I	W1	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 520-201	APSC_V	520	201	Co-operative Education Work Term I	W2	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 521-100	APSC_V	521	100	Co-operative Education Work Term II	W1-2	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

APSC_V 521-101	APSC_V	521	101	Co-operative Education Work Term II	W1	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
APSC_V 521-201	APSC_V	521	201	Co-operative Education Work Term II	W2	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
APSC_V 522-100	APSC_V	522	100	Co-operative Education Work Term III	W1-2	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
APSC_V 522-101	APSC_V	522	101	Co-operative Education Work Term III	W1	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
APSC_V 522-201	APSC_V	522	201	Co-operative Education Work Term III	W2	Supervised, technical paid work experience with a public or private organization for a minimum of 12 weeks full-time. Co-op assignment(s) required. Restricted to graduate degree students meeting requirement(s) of the Faculty of Applied Science and the Co-operative Education program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
APSC_V 540-101	APSC_V	540	101	Entrepreneurial Thinking for Applied Scientists	W1	Issues and case studies in creating and running ventures, with a particular emphasis on exploring applied science projects through a new venture lens, strategic planning, finance and risk. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
APSC_V 541-201	APSC_V	541	201	Technology Entrepreneurship for Engineers	W2	A broad introduction to the entrepreneurial process, for engineers who would like to form or grow a technology company, and those with a general interest in the field. Key factors of new venture creation are identified and evaluated. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:30 p.m.	
APSC_V 541-202	APSC_V	541	202	Technology Entrepreneurship for Engineers	W2	A broad introduction to the entrepreneurial process, for engineers who would like to form or grow a technology company, and those with a general interest in the field. Key factors of new venture creation are identified and evaluated. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:30 p.m.	
APSC_V 598-G_201	APSC_V	598	G	G_201	W2	Topics in Engineering	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 598-L_001	APSC_V	598	L	L_001	W1-2	Topics in Engineering	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
APSC_V 598-P_201	APSC_V	598	P	P_201	W2	Topics in Engineering	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
APSC_V 598-S_001	APSC_V	598	S	S_001	W1-2	Topics in Engineering	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AQUA_V 505-001	AQUA_V	505	001	Ecological Sustainability of Aquaculture	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
ARBC_V 101-001	ARBC_V	101	001	Beginning Classical and Quranic Arabic I	W1	Classical Arabic, with an introduction to vocabulary and grammar and the reading of simple Qur'anic texts and wisdom sayings in the original.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ARBC_V 101-002	ARBC_V	101	002	Beginning Classical and Quranic Arabic I	W1	Classical Arabic, with an introduction to vocabulary and grammar and the reading of simple Qur'anic texts and wisdom sayings in the original.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.	
ARBC_V 205-001	ARBC_V	205	001	Beginning Classical and Quranic Arabic II	W2	Classical Arabic, with further introduction to vocabulary and grammar and the reading of Qur'anic texts in the original. Credit will be granted for only one of ARBC 102 or ARBC 205. Prerequisite: ARBC 101. Equivalency: ARBC 102	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ARBC_V 301-001	ARBC_V	301	001	Intermediate Classical and Quranic Arabic I	W1	Classical Arabic. Designed to enrich vocabulary and grammar and to enhance fluency in reading and interpreting a range of Qur'anic texts. Credit will be granted for only one of ARBC 201 or ARBC 301. Prerequisite: One of ARBC 205, ARBC 102. Equivalency: ARBC 201.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
ARBC_V 302-001	ARBC_V	302	001	Intermediate Classical and Quranic Arabic II	W2	Classical Arabic. Designed to further enrich vocabulary and grammar and to enhance fluency in reading and interpreting longer texts from Qur'an, Hadith and other genres. Credit will be granted for only one of ARBC 202 or ARBC 302. Prerequisite: One of ARBC 201, ARBC 301. Equivalency: ARBC 202	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
ARBC_V 420-B_001	ARBC_V	420	B	B_001	W2	Supervised Study in Classical and Quranic Arabic	Readings in religious and literary Arabic texts pertaining to the early and classical Islamic world. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ARBC 202, ARBC 302.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
ARBM_V 101-011	ARBM_V	101	011	Introductory Modern Arabic I	W1	Basic listening, speaking, reading and writing skills in Modern Standard Arabic at the Beginning Elementary level.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.	
ARBM_V 101-012	ARBM_V	101	012	Introductory Modern Arabic I	W1	Basic listening, speaking, reading and writing skills in Modern Standard Arabic at the Beginning Elementary level.	In Person Learning	Tue Thu	4:00 p.m. - 6:00 p.m.	
ARBM_V 101-021	ARBM_V	101	021	Introductory Modern Arabic I	W2	Basic listening, speaking, reading and writing skills in Modern Standard Arabic at the Beginning Elementary level.	In Person Learning	Arranged	Arranged	
ARBM_V 101-022	ARBM_V	101	022	Introductory Modern Arabic I	W2	Basic listening, speaking, reading and writing skills in Modern Standard Arabic at the Beginning Elementary level.	In Person Learning	Arranged	Arranged	

ARBM_V 201-011	ARBM_V	201	011	Intermediate Modern Arabic I	W1	Continued development of listening, speaking, reading and writing skills in both standard and spoken Arabic, and further exploration of various aspects of Arab culture. Recommended prerequisite: ARBM 102 or placement approval and permission of the instructor. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
ARBM_V 201-021	ARBM_V	201	021	Intermediate Modern Arabic I	W2	Continued development of listening, speaking, reading and writing skills in both standard and spoken Arabic, and further exploration of various aspects of Arab culture. Recommended prerequisite: ARBM 102 or placement approval and permission of the instructor. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARBM_V 202-011	ARBM_V	202	011	Intermediate Modern Arabic II	W1	Continued development of listening, speaking, reading and writing skills in both standard and spoken Arabic, and further exploration of various aspects of Arab culture. Recommended prerequisite: ARBM 201 or placement approval and permission of the instructor	Online Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
ARBM_V 202-021	ARBM_V	202	021	Intermediate Modern Arabic II	W2	Continued development of listening, speaking, reading and writing skills in both standard and spoken Arabic, and further exploration of various aspects of Arab culture. Recommended prerequisite: ARBM 201 or placement approval and permission of the instructor	In Person Learning	Arranged	Arranged
ARBM_V 450-011	ARBM_V	450	011	Advanced Studies in Modern Arabic Language and Cultures	W1	Advanced-level Arabic written and oral language course focused on contemporary topics related to Arab and Arabic-speaking cultures. Recommended: Provide evidence of ACTFL Advanced High or CEFR C1.1 proficiency in Modern Standard Arabic or placement test with course instructor.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ARBM_V 450-021	ARBM_V	450	021	Advanced Studies in Modern Arabic Language and Cultures	W2	Advanced-level Arabic written and oral language course focused on contemporary topics related to Arab and Arabic-speaking cultures. Recommended: Provide evidence of ACTFL Advanced High or CEFR C1.1 proficiency in Modern Standard Arabic or placement test with course instructor.	In Person Learning	Arranged	Arranged
ARCH_V 500-001	ARCH_V	500	001	Architectural Design Studio I	W1	A series of projects focusing on conceptual development, design synthesis, principles of typology, organization and representation. This course is not eligible for Credit/D/Fail grading. Corequisite: ARCH 502.	In Person Learning	Thu	2:00 p.m. - 6:00 p.m.
ARCH_V 501-001	ARCH_V	501	001	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-002	ARCH_V	501	002	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-003	ARCH_V	501	003	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-004	ARCH_V	501	004	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-005	ARCH_V	501	005	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-006	ARCH_V	501	006	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue	1:30 p.m. - 6:00 p.m.
ARCH_V 501-007	ARCH_V	501	007	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue	1:30 p.m. - 6:00 p.m.
ARCH_V 501-008	ARCH_V	501	008	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue	1:30 p.m. - 6:00 p.m.
ARCH_V 501-009	ARCH_V	501	009	Architectural Design Studio II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-010	ARCH_V	501	010	Architectural Design Studio II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-011	ARCH_V	501	011	Architectural Design Studio II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-012	ARCH_V	501	012	Architectural Design Studio II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-013	ARCH_V	501	013	Architectural Design Studio II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 501-101	ARCH_V	501	101	Architectural Design Studio II	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 502-610	ARCH_V	502	610	Introductory Workshop	W1	Commences in August one week prior to Labour Day. Enrolment mandatory for all incoming students. Credit will be granted for only one of ARCH 502 or LARC 511. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 504-A_101	ARCH_V	504	A	A_101	W1	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

ARCH_V 504-B_201	ARCH_V	504	B	B_201	Topics in Architectural History I (Pre-1900)	W2	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 504-D_102	ARCH_V	504	D	D_102	Topics in Architectural History I (Pre-1900)	W1	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
ARCH_V 504-D_D01	ARCH_V	504	D	D_D01	Topics in Architectural History I (Pre-1900)	W1	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
ARCH_V 504-F_201	ARCH_V	504	F	F_201	Topics in Architectural History I (Pre-1900)	W2	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
ARCH_V 504-F_202	ARCH_V	504	F	F_202	Topics in Architectural History I (Pre-1900)	W2	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
ARCH_V 504-F_D01	ARCH_V	504	F	F_D01	Topics in Architectural History I (Pre-1900)	W2	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
ARCH_V 505-A_101	ARCH_V	505	A	A_101	Topics in Architectural History II (1900-Present)	W1	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 505-B_201	ARCH_V	505	B	B_201	Topics in Architectural History II (1900-Present)	W2	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
ARCH_V 505-D_101	ARCH_V	505	D	D_101	Topics in Architectural History II (1900-Present)	W1	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
ARCH_V 505-E_201	ARCH_V	505	E	E_201	Topics in Architectural History II (1900-Present)	W2	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
ARCH_V 505-J_201	ARCH_V	505	J	J_201	Topics in Architectural History II (1900-Present)	W2	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 511-001	ARCH_V	511		001	Architectural Technology I	W1	Architectural technology, including materials and methods, construction types, and building system integration. Strong emphasis on enclosure performance with focus on smaller buildings and light wood framing construction. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ARCH_V 512-001	ARCH_V	512		001	Structures I	W2	Quantitative and qualitative means for understanding of statics, materials and flow of force through a structure. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARCH_V 513-001	ARCH_V	513		001	Environmental Systems and Controls I	W1	Building form and fabric considerations to assure appropriate thermal, luminous, sonic, and atmospheric conditions within buildings. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ARCH_V 515-001	ARCH_V	515		001	Design Media I	W1	Foundations of manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 515, DES 211 or ENDS 320. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ARCH_V 515-002	ARCH_V	515		002	Design Media I	W1	Foundations of manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 515, DES 211 or ENDS 320. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ARCH_V 517-001	ARCH_V	517		001	Design Media II	W2	Intermediate manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 517, ARCH 437 or DES 212. This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 515.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
ARCH_V 517-002	ARCH_V	517		002	Design Media II	W2	Intermediate manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 517, ARCH 437 or DES 212. This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 515.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ARCH_V 520-001	ARCH_V	520		001	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-002	ARCH_V	520		002	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-003	ARCH_V	520		003	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-004	ARCH_V	520		004	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-005	ARCH_V	520		005	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.

ARCH_V 520-006	ARCH_V	520	006	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-007	ARCH_V	520	007	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-008	ARCH_V	520	008	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-009	ARCH_V	520	009	Architectural Design Studio III	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-010	ARCH_V	520	010	Architectural Design Studio III	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-011	ARCH_V	520	011	Architectural Design Studio III	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-012	ARCH_V	520	012	Architectural Design Studio III	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-013	ARCH_V	520	013	Architectural Design Studio III	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 520-101	ARCH_V	520	101	Architectural Design Studio III	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 521-009	ARCH_V	521	009	Architectural Design Studio IV	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ARCH 511, ARCH 512, ARCH 513, ARCH 520. Corequisite: All of ARCH 531, ARCH 533.	In Person Learning	Thu	2:00 p.m. - 6:00 p.m.
ARCH_V 523-001	ARCH_V	523	001	Contemporary Theories in Architecture	W2	Theoretical propositions and their built manifestations. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of ARCH 504, ARCH 505.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
ARCH_V 531-001	ARCH_V	531	001	Architectural Technology II	W2	Analysis and design of advanced assemblies. Integration of multiple building systems within a wide range of construction types, and more complex enclosures in a variety of climatic conditions. Emphasis on technical performance, durability and sustainability. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH511]	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARCH_V 532-001	ARCH_V	532	001	Architectural Structures II	W1	Complex multi-span and continuous systems: effective material configuration, approximate methods of analysis, selection of appropriate structural systems, earthquake configuration and high rises. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH512]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ARCH_V 533-001	ARCH_V	533	001	Environmental Systems and Controls II	W2	Mechanical and electrical services of buildings and their integration with architectural form and fabric. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH513]	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ARCH_V 540-001	ARCH_V	540	001	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-002	ARCH_V	540	002	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-003	ARCH_V	540	003	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-004	ARCH_V	540	004	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-005	ARCH_V	540	005	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-006	ARCH_V	540	006	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-007	ARCH_V	540	007	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-008	ARCH_V	540	008	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-009	ARCH_V	540	009	Architectural Design Studio V	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.

ARCH_V 540-010	ARCH_V	540		010	Architectural Design Studio V	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-011	ARCH_V	540		011	Architectural Design Studio V	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-012	ARCH_V	540		012	Architectural Design Studio V	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-013	ARCH_V	540		013	Architectural Design Studio V	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 540-101	ARCH_V	540		101	Architectural Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
ARCH_V 541-002	ARCH_V	541		002	Professional Practice	W2	Ethical, legal and business context of professional practice, including contracts, project management. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARCH_V 544-A_101	ARCH_V	544	A	A_101	Seminar in Architecture	W1	An exploration of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 544-A_201	ARCH_V	544	A	A_201	Seminar in Architecture	W2	An exploration of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 544-C_201	ARCH_V	544	C	C_201	Seminar in Architecture	W2	An exploration of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 544-D_201	ARCH_V	544	D	D_201	Seminar in Architecture	W2	An exploration of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
ARCH_V 544-F_101	ARCH_V	544	F	F_101	Seminar in Architecture	W1	An exploration of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
ARCH_V 544-H_101	ARCH_V	544	H	H_101	Seminar in Architecture	W1	An exploration of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
ARCH_V 545-A_001	ARCH_V	545	A	A_001	Directed Studies in Architecture	W1	Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 545-A_003	ARCH_V	545	A	A_003	Directed Studies in Architecture	W2	Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 545-B_001	ARCH_V	545	B	B_001	Directed Studies in Architecture	W1	Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 545-B_003	ARCH_V	545	B	B_003	Directed Studies in Architecture	W2	Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 548-001	ARCH_V	548		001	Graduate Project Part I	W1	Preparation of a graduation design project including literature review. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ARCH 521, ARCH 523, ARCH 531, ARCH 532, ARCH 533.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ARCH_V 548-002	ARCH_V	548		002	Graduate Project Part I	W2	Preparation of a graduation design project including literature review. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ARCH 521, ARCH 523, ARCH 531, ARCH 532, ARCH 533.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
ARCH_V 549-101	ARCH_V	549		101	Graduate Project Part II	W1	Design component, completion, and defense of the graduation design project. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH548] and no more than 18 credits outstanding beyond ARCH 549	In Person Learning	Arranged	Arranged
ARCH_V 549-102	ARCH_V	549		102	Graduate Project Part II	W1	Design component, completion, and defense of the graduation design project. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH548] and no more than 18 credits outstanding beyond ARCH 549	In Person Learning	Arranged	Arranged
ARCH_V 549-201	ARCH_V	549		201	Graduate Project Part II	W2	Design component, completion, and defense of the graduation design project. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH548] and no more than 18 credits outstanding beyond ARCH 549	In Person Learning	Arranged	Arranged
ARCH_V 555-A_001	ARCH_V	555	A	A_001	Co-operative Education	W1	Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 555-A_002	ARCH_V	555	A	A_002	Co-operative Education	W2	Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

ARCH_V 555-B_001	ARCH_V	555	B	B_001	Co-operative Education	W1	Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 555-B_002	ARCH_V	555	B	B_002	Co-operative Education	W2	Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 574-201	ARCH_V	574		201	Green Building Contemporary Practice	W2	Enhanced building environmental performance and the integration of green building principles, strategies and technologies. This course is not eligible for Credit/D/Fail grading. Equivalency: HPB501	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
ARCH_V 575-101	ARCH_V	575		101	Regenerative Development	W1	The relationship between human and natural systems in the context of regenerative design. Provides an understanding of how regenerative approaches differ from green design and how they can offer new insights and directions for design. This course is not eligible for Credit/D/Fail grading. Equivalency: HPB502	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
ARCH_V 575-102	ARCH_V	575		102	Regenerative Development	W1	The relationship between human and natural systems in the context of regenerative design. Provides an understanding of how regenerative approaches differ from green design and how they can offer new insights and directions for design. This course is not eligible for Credit/D/Fail grading. Equivalency: HPB502	In Person Learning	Arranged	Arranged
ARCH_V 597-F_001	ARCH_V	597	F	F_001	Special Topics	W1	Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	11:00 a.m. - 12:30 p.m.
ARCH_V 597-F_T01	ARCH_V	597	F	F_T01	Special Topics	W1	Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
ARCH_V 597-F_T02	ARCH_V	597	F	F_T02	Special Topics	W1	Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
ARCH_V 597-F_T03	ARCH_V	597	F	F_T03	Special Topics	W1	Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 12:30 p.m.
ARCH_V 597-F_T04	ARCH_V	597	F	F_T04	Special Topics	W1	Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 12:30 p.m.
ARCH_V 598-001	ARCH_V	598		001	Research Thesis	W1-2	Restricted to M.A.S.A. candidates. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 598-002	ARCH_V	598		002	Research Thesis	W1	Restricted to M.A.S.A. candidates. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCH_V 598-003	ARCH_V	598		003	Research Thesis	W2	Restricted to M.A.S.A. candidates. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARCL_V 103-001	ARCL_V	103		001	Introduction to Archaeology: Past perspectives and Future Promise	W2	A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
ARCL_V 103-D1A	ARCL_V	103		D1A	Introduction to Archaeology: Past perspectives and Future Promise	W2	A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
ARCL_V 103-D1B	ARCL_V	103		D1B	Introduction to Archaeology: Past perspectives and Future Promise	W2	A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
ARCL_V 103-D1C	ARCL_V	103		D1C	Introduction to Archaeology: Past perspectives and Future Promise	W2	A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
ARCL_V 103-D1D	ARCL_V	103		D1D	Introduction to Archaeology: Past perspectives and Future Promise	W2	A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
ARCL_V 103-D1E	ARCL_V	103		D1E	Introduction to Archaeology: Past perspectives and Future Promise	W2	A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
ARCL_V 103-D1F	ARCL_V	103		D1F	Introduction to Archaeology: Past perspectives and Future Promise	W2	A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
ARCL_V 140-001	ARCL_V	140		001	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Mon Wed	3:00 p.m. - 4:00 p.m.
ARCL_V 140-D1A	ARCL_V	140		D1A	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
ARCL_V 140-D1B	ARCL_V	140		D1B	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.

ARCL_V 140-D1C	ARCL_V	140	D1C	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
ARCL_V 140-D1D	ARCL_V	140	D1D	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
ARCL_V 140-D1E	ARCL_V	140	D1E	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
ARCL_V 140-D1F	ARCL_V	140	D1F	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
ARCL_V 140-D1G	ARCL_V	140	D1G	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
ARCL_V 140-D1H	ARCL_V	140	D1H	Bones: The Origins of Humanity	W1	The origin and evolution of the human lineage and the emergence of human biological and cultural traits with emphasis on the fossil record before the Pleistocene.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
ARCL_V 203-001	ARCL_V	203	001	Archaeological Methods	W1	Introduces the methods and principles applied in anthropological archaeology and cultural-historical research.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ARCL_V 228-001	ARCL_V	228	001	Forensic Anthropology	W1	The application of methods from biological anthropology and archaeology to the identification, recovery, and analysis of skeletal remains from crime scenes, mass disasters, and unexplained deaths.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
ARCL_V 228-002	ARCL_V	228	002	Forensic Anthropology	W2	The application of methods from biological anthropology and archaeology to the identification, recovery, and analysis of skeletal remains from crime scenes, mass disasters, and unexplained deaths.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
ARCL_V 235-001	ARCL_V	235	001	Taming the Wild: Animals, Alcohol and Agriculture	W2	How, when and why humans became dependent on cultivated foods and domestic animals and the methods used to document plant and animal domestication.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ARCL_V 305-001	ARCL_V	305	001	Archaeological Interpretation	W1	Current theoretical developments explored through the practice of archaeology. Examples drawn from a range of times and places focusing on emerging technologies, food production, colonial encounters and culture contact, materiality and symbolic systems, social inequality and complexity, and human-environmental interactions.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ARCL_V 309-001	ARCL_V	309	001	The Archaeology of Collapse and Sustainability	W2	An evaluation of the issues of sustainability and collapse of ecological and social systems through the archaeological study of the past.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ARCL_V 325-A_001	ARCL_V	325	A	A_001	W1	Origin and development of the hominins; the hominin fossil record, and theories relating to hominin evolution. Prerequisite: ARCL 140.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ARCL_V 405-001	ARCL_V	405	001	Archaeological and Anthropological Mapping	W1	Current methods in mapping spatial information in archaeology and related subfields of anthropology.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ARCL_V 419-001	ARCL_V	419	001	The Archaeology of Death	W2	A survey of methods, theory, and case-studies in mortuary archaeology. Prerequisite: ARCL 203.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARST_V 500-001	ARST_V	500	001	Information Technology and Archives	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
ARST_V 510-001	ARST_V	510	001	Archival Diplomatics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARST_V 515-001	ARST_V	515	001	Arrangement and Description of Archives	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ARST_V 516-002	ARST_V	516	002	Management of Current Records	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARST_V 517-002	ARST_V	517	002	History of Record Keeping	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ARST_V 520-002	ARST_V	520	002	Selection and Acquisition of Archival Documents	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
ARST_V 540-001	ARST_V	540	001	Archival Public Services	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	9:00 a.m. - 12:00 p.m.
ARST_V 554-001	ARST_V	554	001	Database Design	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.

ARST_V 554-002	ARST_V	554	002	Database Design	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
ARST_V 555-002	ARST_V	555	002	The Preservation of Digital Records	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
ARST_V 556-K_002	ARST_V	556	K	K_002	Topics in Archival Automation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
ARST_V 556-L_001	ARST_V	556	L	L_001	Topics in Archival Automation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
ARST_V 556-P_001	ARST_V	556	P	P_001	Topics in Archival Automation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
ARST_V 556-Q_002	ARST_V	556	Q	Q_002	Topics in Archival Automation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ARST_V 565-002	ARST_V	565	002	Administering Records under Freedom of Information and Protection of Privacy Legislation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
ARST_V 570-001	ARST_V	570	001	Management of Information Organizations	W1	Credit will only be granted for one of ARST 570 or LIBR 504. This course is not eligible for Credit/D/Fail grading. Equivalency: LIBR504	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
ARST_V 570-002	ARST_V	570	002	Management of Information Organizations	W2	Credit will only be granted for one of ARST 570 or LIBR 504. This course is not eligible for Credit/D/Fail grading. Equivalency: LIBR504	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
ARST_V 573-001	ARST_V	573	001	Archival Systems and the Profession	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
ARST_V 575-J_002	ARST_V	575	J	J_002	Topics in the Management of Records	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARST_V 575-M_002	ARST_V	575	M	M_002	Topics in the Management of Records	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
ARST_V 585-002	ARST_V	585	002	Information Practice and Protocol in Support of Indigenous Initiatives	W2	Credit will only be granted for one of ARST 585 or LIBR 564. This course is not eligible for Credit/D/Fail grading. Equivalency: LIBR 564	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
ARST_V 586-002	ARST_V	586	002	Progressive and Radical Information Work	W2	Credit will only be granted for one of ARST 586 or LIBR 565. This course is not eligible for Credit/D/Fail grading. Equivalency: LIBR565	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
ARST_V 587-001	ARST_V	587	001	Preservation	W1	Credit will only be granted for one of ARST 587 or LIBR 587. This course is not eligible for Credit/D/Fail grading. Equivalency: LIBR587	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.	
ARST_V 587-002	ARST_V	587	002	Preservation	W2	Credit will only be granted for one of ARST 587 or LIBR 587. This course is not eligible for Credit/D/Fail grading. Equivalency: LIBR587	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.	
ARST_V 591-002	ARST_V	591	002	Archival Research and Scholarship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
ARST_V 592-A_001	ARST_V	592	A	A_001	Directed Research Project	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARST_V 592-A_003	ARST_V	592	A	A_003	Directed Research Project	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARST_V 592-B_002	ARST_V	592	B	B_002	Directed Research Project	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARST_V 594-A_001	ARST_V	594	A	A_001	Directed Study	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ARST_V 594-A_003	ARST_V	594	A	A_003	Directed Study	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ARST_V 594-B_002	ARST_V	594	B	B_002	Directed Study	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

ARST_V 595-001	ARST_V	595	001	Internship	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ARST_V 595-002	ARST_V	595	002	Internship	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ARST_V 596-001	ARST_V	596	001	Professional Experience	W1	Project-based experience undertaken with a faculty associate occupying a minimum of ten hours a week for 12 consecutive weeks or the equivalent time. 24 credits in the program are required. Evaluation: Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ARST_V 596-002	ARST_V	596	002	Professional Experience	W2	Project-based experience undertaken with a faculty associate occupying a minimum of ten hours a week for 12 consecutive weeks or the equivalent time. 24 credits in the program are required. Evaluation: Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ARST_V 596-003	ARST_V	596	003	Professional Experience	W1-2	Project-based experience undertaken with a faculty associate occupying a minimum of ten hours a week for 12 consecutive weeks or the equivalent time. 24 credits in the program are required. Evaluation: Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ARST_V 599-A_001	ARST_V	599	A	A_001	Thesis	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARST_V 599-A_002	ARST_V	599	A	A_002	Thesis	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARST_V 599-A_003	ARST_V	599	A	A_003	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARST_V 599-B_003	ARST_V	599	B	B_003	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARST_V 599-B_004	ARST_V	599	B	B_004	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: ARST 591.	In Person Learning	Arranged	Arranged
ARTC_V 100-01F	ARTC_V	100	01F	Arts Co-op Search Term #1	W1	Search term to obtain first work term. Completion of pre-employment workshops, group and individual coaching sessions on job search processes, and minimum number of job applications required. Students apply for jobs and go for interviews until they are hired. Pass/Fail. Restricted to students in the Arts Co-op Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of Writing Component of Arts Writing and Research Requirement strongly recommended.	In Person Learning	Arranged	Arranged	
ARTC_V 100-01W	ARTC_V	100	01W	Arts Co-op Search Term #1	W1	Search term to obtain first work term. Completion of pre-employment workshops, group and individual coaching sessions on job search processes, and minimum number of job applications required. Students apply for jobs and go for interviews until they are hired. Pass/Fail. Restricted to students in the Arts Co-op Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of Writing Component of Arts Writing and Research Requirement strongly recommended.	In Person Learning	Arranged	Arranged	
ARTC_V 100-02F	ARTC_V	100	02F	Arts Co-op Search Term #1	W1	Search term to obtain first work term. Completion of pre-employment workshops, group and individual coaching sessions on job search processes, and minimum number of job applications required. Students apply for jobs and go for interviews until they are hired. Pass/Fail. Restricted to students in the Arts Co-op Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of Writing Component of Arts Writing and Research Requirement strongly recommended.	In Person Learning	Arranged	Arranged	
ARTC_V 100-02W	ARTC_V	100	02W	Arts Co-op Search Term #1	W2	Search term to obtain first work term. Completion of pre-employment workshops, group and individual coaching sessions on job search processes, and minimum number of job applications required. Students apply for jobs and go for interviews until they are hired. Pass/Fail. Restricted to students in the Arts Co-op Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of Writing Component of Arts Writing and Research Requirement strongly recommended.	In Person Learning	Arranged	Arranged	
ARTC_V 100-03F	ARTC_V	100	03F	Arts Co-op Search Term #1	W1	Search term to obtain first work term. Completion of pre-employment workshops, group and individual coaching sessions on job search processes, and minimum number of job applications required. Students apply for jobs and go for interviews until they are hired. Pass/Fail. Restricted to students in the Arts Co-op Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of Writing Component of Arts Writing and Research Requirement strongly recommended.	In Person Learning	Arranged	Arranged	
ARTC_V 100-03W	ARTC_V	100	03W	Arts Co-op Search Term #1	W2	Search term to obtain first work term. Completion of pre-employment workshops, group and individual coaching sessions on job search processes, and minimum number of job applications required. Students apply for jobs and go for interviews until they are hired. Pass/Fail. Restricted to students in the Arts Co-op Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of Writing Component of Arts Writing and Research Requirement strongly recommended.	In Person Learning	Arranged	Arranged	
ARTC_V 110-01F	ARTC_V	110	01F	Arts Co-op Work Term #1	W1	Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. This course is not eligible for Credit/D/Fail grading. Restricted to students in the Arts Co-operative Education Program. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Recommended pre-requisite: ARTC 100. Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 200.	In Person Learning	Arranged	Arranged	
ARTC_V 110-01W	ARTC_V	110	01W	Arts Co-op Work Term #1	W2	Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. This course is not eligible for Credit/D/Fail grading. Restricted to students in the Arts Co-operative Education Program. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Recommended pre-requisite: ARTC 100. Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 200.	In Person Learning	Arranged	Arranged	





ARTC_V 445-02W	ARTC_V	445	02W	Arts Co-op Search Term #5	W2	Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 410 and ARTC 411 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 410, ARTC 411. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 445-03F	ARTC_V	445	03F	Arts Co-op Search Term #5	W1	Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 410 and ARTC 411 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 410, ARTC 411. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 445-03W	ARTC_V	445	03W	Arts Co-op Search Term #5	W2	Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 410 and ARTC 411 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 410, ARTC 411. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 450-01F	ARTC_V	450	01F	Arts Co-op Work Term #5	W1	Optional fifth work term. Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisite: ARTC 445. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 450-01W	ARTC_V	450	01W	Arts Co-op Work Term #5	W2	Optional fifth work term. Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisite: ARTC 445. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 451-01F	ARTC_V	451	01F	Arts Co-op Work Term #5 (Extension)	W1	Extension of co-op term with the same employer as ARTC 410 or 411 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 410, ARTC 411. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 451-01W	ARTC_V	451	01W	Arts Co-op Work Term #5 (Extension)	W2	Extension of co-op term with the same employer as ARTC 410 or 411 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 410, ARTC 411. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 456-01F	ARTC_V	456	01F	Arts Co-op Search Term #6	W1	Search term to obtain optional sixth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 456-01W	ARTC_V	456	01W	Arts Co-op Search Term #6	W2	Search term to obtain optional sixth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 456-02F	ARTC_V	456	02F	Arts Co-op Search Term #6	W1	Search term to obtain optional sixth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 456-02W	ARTC_V	456	02W	Arts Co-op Search Term #6	W2	Search term to obtain optional sixth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 456-03F	ARTC_V	456	03F	Arts Co-op Search Term #6	W1	Search term to obtain optional sixth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 456-03W	ARTC_V	456	03W	Arts Co-op Search Term #6	W2	Search term to obtain optional sixth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 456. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 460-01F	ARTC_V	460	01F	Arts Co-op Work Term #6	W1	Optional sixth work term. Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Recommended pre-requisite: ARTC 456 This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 460-01W	ARTC_V	460	01W	Arts Co-op Work Term #6	W2	Optional sixth work term. Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Recommended pre-requisite: ARTC 456 This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 461-01F	ARTC_V	461	01F	Arts Co-op Work Term #6 (Extension)	W1	Extension of co-op term with the same employer as ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 460 and 461. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTC_V 461-01W	ARTC_V	461	01W	Arts Co-op Work Term #6 (Extension)	W2	Extension of co-op term with the same employer as ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 460 and 461. Pass/Fail. Recommended pre-requisites: one of ARTC 450, ARTC 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTH_V 101-001	ARTH_V	101	001	Ways of Seeing: Introduction to Visual Studies	W1	Drawing on examples from across history and around the world, this course deals with the role of the visual in society, culture, and everyday experience.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
ARTH_V 101-L01	ARTH_V	101	L01	Ways of Seeing: Introduction to Visual Studies	W1	Drawing on examples from across history and around the world, this course deals with the role of the visual in society, culture, and everyday experience.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.

ARTH_V 101-L02	ARTH_V	101	L02	Ways of Seeing: Introduction to Visual Studies	W1	Drawing on examples from across history and around the world, this course deals with the role of the visual in society, culture, and everyday experience.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
ARTH_V 101-L03	ARTH_V	101	L03	Ways of Seeing: Introduction to Visual Studies	W1	Drawing on examples from across history and around the world, this course deals with the role of the visual in society, culture, and everyday experience.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
ARTH_V 101-L04	ARTH_V	101	L04	Ways of Seeing: Introduction to Visual Studies	W1	Drawing on examples from across history and around the world, this course deals with the role of the visual in society, culture, and everyday experience.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
ARTH_V 101-L05	ARTH_V	101	L05	Ways of Seeing: Introduction to Visual Studies	W1	Drawing on examples from across history and around the world, this course deals with the role of the visual in society, culture, and everyday experience.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
ARTH_V 101-L06	ARTH_V	101	L06	Ways of Seeing: Introduction to Visual Studies	W1	Drawing on examples from across history and around the world, this course deals with the role of the visual in society, culture, and everyday experience.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
ARTH_V 102-001	ARTH_V	102	001	Crisis and Contradiction in Art and the Built Environment	W2	Concepts and issues critical to the understanding of art and its histories in a global context.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
ARTH_V 102-L01	ARTH_V	102	L01	Crisis and Contradiction in Art and the Built Environment	W2	Concepts and issues critical to the understanding of art and its histories in a global context.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
ARTH_V 102-L02	ARTH_V	102	L02	Crisis and Contradiction in Art and the Built Environment	W2	Concepts and issues critical to the understanding of art and its histories in a global context.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
ARTH_V 102-L03	ARTH_V	102	L03	Crisis and Contradiction in Art and the Built Environment	W2	Concepts and issues critical to the understanding of art and its histories in a global context.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
ARTH_V 102-L04	ARTH_V	102	L04	Crisis and Contradiction in Art and the Built Environment	W2	Concepts and issues critical to the understanding of art and its histories in a global context.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
ARTH_V 102-L05	ARTH_V	102	L05	Crisis and Contradiction in Art and the Built Environment	W2	Concepts and issues critical to the understanding of art and its histories in a global context.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
ARTH_V 102-L06	ARTH_V	102	L06	Crisis and Contradiction in Art and the Built Environment	W2	Concepts and issues critical to the understanding of art and its histories in a global context.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
ARTH_V 210-001	ARTH_V	210	001	Byzantium: Arts of an Empire	W1	Art, architecture, and material culture of the Byzantine Empire situated in the eastern Mediterranean (c. 300-1453); focus on social and cultural contexts of artistic production, including interactions with neighboring cultures. Credit will only be granted for one of ARTH 210, CNRS 207 or AMNE 279. Equivalency: AMNE 279	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ARTH_V 225-001	ARTH_V	225	001	Art, Patrons, and Audiences in the Middle Ages	W2	A thematic study of the relationship between patrons and audiences in painting, sculpture, and architecture through the 15th century.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
ARTH_V 225-L01	ARTH_V	225	L01	Art, Patrons, and Audiences in the Middle Ages	W2	A thematic study of the relationship between patrons and audiences in painting, sculpture, and architecture through the 15th century.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
ARTH_V 225-L02	ARTH_V	225	L02	Art, Patrons, and Audiences in the Middle Ages	W2	A thematic study of the relationship between patrons and audiences in painting, sculpture, and architecture through the 15th century.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
ARTH_V 225-L03	ARTH_V	225	L03	Art, Patrons, and Audiences in the Middle Ages	W2	A thematic study of the relationship between patrons and audiences in painting, sculpture, and architecture through the 15th century.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
ARTH_V 227-001	ARTH_V	227	001	What is Modern Art?	W1	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Tue	3:30 p.m. - 5:30 p.m.
ARTH_V 227-002	ARTH_V	227	002	What is Modern Art?	W2	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
ARTH_V 227-L01	ARTH_V	227	L01	What is Modern Art?	W1	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
ARTH_V 227-L02	ARTH_V	227	L02	What is Modern Art?	W1	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
ARTH_V 227-L03	ARTH_V	227	L03	What is Modern Art?	W1	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
ARTH_V 227-L04	ARTH_V	227	L04	What is Modern Art?	W2	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.

ARTH_V 227-L05	ARTH_V	227	L05	What is Modern Art?	W2	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
ARTH_V 227-L06	ARTH_V	227	L06	What is Modern Art?	W2	Select issues in 20th-century art and the visual and built environment.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
ARTH_V 251-001	ARTH_V	251	001	Asian Arts: From Chinese Warriors to Bollywood Posters	W1	A thematic examination of Asian arts, such as historic, religious, and secular painting and sculpture to contemporary visual culture.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARTH_V 253-001	ARTH_V	253	001	Asian Architecture: Sacred and Urban Spaces	W2	Select built forms in Asia, such as temples, tombs, palaces, cities and gardens, and their relations to cultural, social and political systems.	In Person Learning	Thu	3:30 p.m. - 6:30 p.m.
ARTH_V 262-001	ARTH_V	262	001	Indigenous Arts of North America	W1	A survey of the artistic production by Indigenous peoples of North America from pre-contact times to the present.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ARTH_V 300-001	ARTH_V	300	001	Seminar on Methods and Approaches in Art History	W1	Theories, problems, and literature in the study of art history. Required of all Major and Honours students in art history. This course is not eligible for Credit/D/Fail grading. Prerequisite: 3 credits of ARTH coursework at any level.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ARTH_V 300-002	ARTH_V	300	002	Seminar on Methods and Approaches in Art History	W2	Theories, problems, and literature in the study of art history. Required of all Major and Honours students in art history. This course is not eligible for Credit/D/Fail grading. Prerequisite: 3 credits of ARTH coursework at any level.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ARTH_V 309-001	ARTH_V	309	001	Arts of Africa and the African Diasporas	W2	Comparative exploration of art practices and their relationship to colonial and postcolonial histories. Credit will be granted for only one of ARTH 309 or AFST 309. Equivalency: AFST 309	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARTH_V 310-001	ARTH_V	310	001	Art and the Religious Transformation of the Late Roman Empire	W1	Visual culture and religious diversity of the Late Roman Empire (2nd-7th c.); social, political, and religious contexts of art, including diverse viewing practices and cultural frameworks. Credit will only be granted for one of ARTH 310, CNRS 333 or AMNE 379. Equivalency: AMNE 379	In Person Learning	Arranged	Arranged
ARTH_V 319-001	ARTH_V	319	001	The Archaeology of Ancient Iraq and Syria: Babylon and Beyond	W1	An overview of the archaeology of the ancient Near East, with special emphasis on the civilizations of Mesopotamia, from the appearance of the first cities (c. 3400 BCE) to the end of the Persian period (c. 330 BCE). AMNE 170 recommended as preparation. Credit will only be granted for one of ARTH 319, NEST 319, or AMNE 372. Equivalency: AMNE 372	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ARTH_V 323-001	ARTH_V	323	001	Heaven and Earth: Renaissance Art and Culture in Northern Europe	W1	Early Modern painting, sculpture, and the graphic arts from the great devotional triptychs, through the Reformation, to the emergence of a secular art (1400-1600).	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ARTH_V 324-001	ARTH_V	324	001	Urban and Courty Arts in Early Modern Northern Europe (1600-1700)	W2	The role of visual art in 17th century court cultures, commercial urban centres, and emergent nation states.	In Person Learning	Arranged	Arranged
ARTH_V 331-001	ARTH_V	331	001	Greek Art and Architecture	W1	Visual culture of the ancient Greek world in the second and first millennia BCE, especially from c. 1000 to 30 BCE. Credit will only be granted for one of ARTH 331, CLST 331, or AMNE 376. Equivalency: AMNE 376	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARTH_V 332-001	ARTH_V	332	001	Roman Art and Architecture	W2	Visual culture of the ancient Roman world from the 8th century BCE to the 4th century CE. Credit will only be granted for one of ARTH 332, CLST 332, or AMNE 377. Equivalency: AMNE 377	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ARTH_V 338-001	ARTH_V	338	001	Visual Culture in the Age of Enlightenment and Revolution (1715-1830)	W2	Art, architecture, and social space in Europe and America: redefining gender, identity and nation in the era of industrialization and political change.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ARTH_V 340-001	ARTH_V	340	001	20th Century Art and Culture: The Triumph and Demise of Modernism	W1	A critical survey of western art and cultural production from the turn of the century to the development of Pop Art.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
ARTH_V 341-001	ARTH_V	341	001	20th Century Art and Culture: The Postmodern	W2	A critical examination of international visual art and culture from the 1950s to the present; the role of art in consumerist society and the emergence of postmodernism.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ARTH_V 343-001	ARTH_V	343	001	Inventing Canada Through Art	W1	The institutions and art movements that constructed a view to the country now known as Canada, from colonial contact, to Confederation, through the mid-1900s. Emphasis on the significance of locality and situated approaches to understanding the land.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ARTH_V 345-001	ARTH_V	345	001	History of Photography: Archive, Spectacle, Reality	W1	History and theory of photography, from the competitive context of invention in the 1830s to contemporary uses in social media.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ARTH_V 350-001	ARTH_V	350	001	Grounding the Islamic Image	W1	Contextualizing the complex language of images in the Islamic world.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ARTH_V 350-002	ARTH_V	350	002	Grounding the Islamic Image	W1	Contextualizing the complex language of images in the Islamic world.	In Person Learning	Arranged	Arranged
ARTH_V 350-003	ARTH_V	350	003	Grounding the Islamic Image	W1	Contextualizing the complex language of images in the Islamic world.	In Person Learning	Arranged	Arranged
ARTH_V 358-001	ARTH_V	358	001	Chinese Art for the Afterlife	W2	Close analyses of Chinese tomb objects and tombs as spatial constructs in their historical, ritual, and social context.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

ARTH_V 362-001	ARTH_V	362	001	Art in Japan: Objects and Spaces	W2	Changing relationship between art objects and the built environment in the Japanese archipelago, in its social and historical context.	In Person Learning	Wed	3:30 p.m. - 6:30 p.m.
ARTH_V 377-001	ARTH_V	377	001	Arts of the Northwest Coast Peoples: The South	W2	The histories, historiography and cultural diversity of the Southern Northwest Coast region; persistence and innovation in the arts in communities, and in cross-cultural and market spheres.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ARTH_V 380-001	ARTH_V	380	001	Art as Technology	W1	Relationship between artistic practice and media, examined through a history of paradigm shifts in technology.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
ARTH_V 380-L01	ARTH_V	380	L01	Art as Technology	W1	Relationship between artistic practice and media, examined through a history of paradigm shifts in technology.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
ARTH_V 380-L02	ARTH_V	380	L02	Art as Technology	W1	Relationship between artistic practice and media, examined through a history of paradigm shifts in technology.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
ARTH_V 380-L03	ARTH_V	380	L03	Art as Technology	W1	Relationship between artistic practice and media, examined through a history of paradigm shifts in technology.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
ARTH_V 380-L04	ARTH_V	380	L04	Art as Technology	W1	Relationship between artistic practice and media, examined through a history of paradigm shifts in technology.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
ARTH_V 432-001	ARTH_V	432	001	Seminar in the Art of the Middle Ages	W1	This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of ARTH 432, ARTH 431, ARTH 433. Equivalency: ARTH 431, ARTH 433	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARTH_V 436-001	ARTH_V	436	001	Seminar in Early Modern Art	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTH_V 440-B_001	ARTH_V	440	B	B_001	W2	Seminar in Modern and Contemporary Art	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ARTH_V 445-001	ARTH_V	445	001	Film and the City	W2	The complex interrelations between film and the city; dominant urban theories, film technologies and viewing practices and the intersections between them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
ARTH_V 450-001	ARTH_V	450	001	Seminar in Art in the Islamic World	W1	Key debates in the field of art and architecture in the Islamic World.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ARTH_V 459-001	ARTH_V	459	001	Seminar in Chinese Art	W2	This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of ARTH 459, ARTH 451, ARTH 452. Equivalency: ARTH 451, ARTH 452	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARTH_V 476-001	ARTH_V	476	001	Seminar in North American Indigenous Art	W1	This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of ARTH 476, ARTH 469. Equivalency: ARTH 469	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ARTH_V 479-001	ARTH_V	479	001	Performance Actions and Approaches	W2	Advanced performance art practices and research methodologies. Credit will be granted for only one of ARTH 479 or VISA 479. This course is not eligible for Credit/D/Fail grading. Equivalency: VISA 479	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
ARTH_V 480-001	ARTH_V	480	001	Visual and Digital Media Theory	W1	A thematic examination of key arguments in visual and digital media theory, focusing on developments in lens-based and digital media in relationship to twentieth-century and contemporary artistic practice.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARTH_V 480-002	ARTH_V	480	002	Visual and Digital Media Theory	W2	A thematic examination of key arguments in visual and digital media theory, focusing on developments in lens-based and digital media in relationship to twentieth-century and contemporary artistic practice.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARTH_V 499-001	ARTH_V	499	001	Honours Essay	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTH_V 539-A_001	ARTH_V	539	A	A_001	W1	Studies in 19th-Century Art	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARTH_V 540-A_001	ARTH_V	540	A	A_001	W2	Studies in 20th Century Art	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ARTH_V 553-A_001	ARTH_V	553	A	A_001	W1	Studies in Japanese Art	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ARTH_V 555-A_001	ARTH_V	555	A	A_001	W2	Studies in South and Southeast Asian Art	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ARTH_V 561-A_001	ARTH_V	561	A	A_001	W2	Studies in the Indigenous Arts of the Americas	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.

ARTH_V 571-001	ARTH_V	571	001	The Methodology of Art History	W1-2	Required of all art history graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ARTH_V 599-001	ARTH_V	599	001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTH_V 599-002	ARTH_V	599	002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTH_V 599-003	ARTH_V	599	003	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTH_V 649-001	ARTH_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
ARTH_V 649-002	ARTH_V	649	002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
ARTH_V 649-003	ARTH_V	649	003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
ARTS_V 001-A_00A	ARTS_V	1	A	A_00A Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTS_V 001-A_301	ARTS_V	1	A	A_301 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
ARTS_V 001-A_L01	ARTS_V	1	A	A_L01 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
ARTS_V 001-A_L02	ARTS_V	1	A	A_L02 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
ARTS_V 001-A_L03	ARTS_V	1	A	A_L03 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ARTS_V 001-A_L04	ARTS_V	1	A	A_L04 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ARTS_V 001-A_L05	ARTS_V	1	A	A_L05 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ARTS_V 001-A_LA1	ARTS_V	1	A	A_LA1 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTS_V 001-A_LA2	ARTS_V	1	A	A_LA2 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTS_V 001-A_LA3	ARTS_V	1	A	A_LA3 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTS_V 001-A_LA4	ARTS_V	1	A	A_LA4 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ARTS_V 001-A_LA5	ARTS_V	1	A	A_LA5 Arts One	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASIA_V 100-011	ASIA_V	100	011	Introduction to Traditional Asia	W1	A survey of the histories and cultures of Asia before 1600 and the coming of the Europeans. Emphasis will be given to parallel themes in the development of the civilizations of South, Southeast and East Asia.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ASIA_V 101-021	ASIA_V	101	021	Introduction to Modern Asia	W2	A survey of the emergence of modern Asia. Aims at an understanding of how the various peoples of Asia have maintained distinctive cultural identities despite centuries of political, economic, social and cultural change.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ASIA_V 110-021	ASIA_V	110	021	Introduction to Religions in Asia	W2	A survey of religious traditions of Asia, including communities, professions, practices and beliefs of small-scale and large-scale societies. Approaches and theories drawn from the field of religious studies.	Online Learning	Mon	2:00 p.m. - 5:00 p.m.
ASIA_V 200-011	ASIA_V	200	011	Cultural Foundations of East Asia	W1	A comparative survey of the beliefs, assumptions and values which have shaped the civilizations of East Asia in both traditional and modern times.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

ASIA_V 200-021	ASIA_V	200	021	Cultural Foundations of East Asia	W2	A comparative survey of the beliefs, assumptions and values which have shaped the civilizations of East Asia in both traditional and modern times.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ASIA_V 208-021	ASIA_V	208	021	Cultural Foundations of South Asia	W2	A survey of South Asian cultures, including language and literature, art, religion, polity and society, as they developed in the past and have been transformed in the modern period.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.	
ASIA_V 210-021	ASIA_V	210	021	Traditions of Yoga	W2	Philosophical, religious, and cultural development of yoga in classical and medieval South Asia and its relation to contemporary globalized practice.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.	
ASIA_V 212-011	ASIA_V	212	011	Writing About Japan	W1	Literary, historiographic, religious, and feminist approaches to Japanese myths, legal tracts, religious tales, fiction, and poetry.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
ASIA_V 250-011	ASIA_V	250	011	Introduction to Buddhism	W1	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Arranged	Arranged	
ASIA_V 250-012	ASIA_V	250	012	Introduction to Buddhism	W1	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Arranged	Arranged	
ASIA_V 250-013	ASIA_V	250	013	Introduction to Buddhism	W1	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Arranged	Arranged	
ASIA_V 250-014	ASIA_V	250	014	Introduction to Buddhism	W1	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Arranged	Arranged	
ASIA_V 250-021	ASIA_V	250	021	Introduction to Buddhism	W2	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Arranged	Arranged	
ASIA_V 250-022	ASIA_V	250	022	Introduction to Buddhism	W2	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.	
ASIA_V 250-023	ASIA_V	250	023	Introduction to Buddhism	W2	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
ASIA_V 250-024	ASIA_V	250	024	Introduction to Buddhism	W2	Origins, basic teachings, development of Theravada, Mahayana, and Tantric traditions, historical spread first through Asia and later the world, and Buddhism in contemporary societies.	In Person Learning	Arranged	Arranged	
ASIA_V 254-011	ASIA_V	254	011	Sex, Gender, and Sexuality in Japanese Literature and Film	W1	The integral role that sex, gender, and sexuality play in literary and cinematic works from Japan. Literary works will be read in translation, movies will be subtitled.	In Person Learning	Arranged	Arranged	
ASIA_V 254-021	ASIA_V	254	021	Sex, Gender, and Sexuality in Japanese Literature and Film	W2	The integral role that sex, gender, and sexuality play in literary and cinematic works from Japan. Literary works will be read in translation, movies will be subtitled.	In Person Learning	Arranged	Arranged	
ASIA_V 258-021	ASIA_V	258	021	Religion in South Asia	W2	The major religious traditions of South Asia, including Hinduism, Islam, Sikhism, and Buddhism; the significance of religious thought and practice in premodern India, as well as the continuing impact of religion in today's globalized South Asia.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.	
ASIA_V 300-011	ASIA_V	300	011	Writing and Culture in East Asia	W1	Practical, aesthetic, historical, technological and political issues pertaining to the use of Chinese characters - hanzi (Chinese), kanji (Japanese), or hanccha (Korean) - throughout the region.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
ASIA_V 305-021	ASIA_V	305	021	Asian Horror Cinema: National Nightmares and Specters of Trauma	W2	Engaging with the ideologies, industrial histories, socio-cultural contexts, and aesthetics of horror films - and the genre itself - from various Asian cinemas.	In Person Learning	Fri	2:00 p.m. - 6:00 p.m.	
ASIA_V 308-011	ASIA_V	308	011	Myth, Ritual and Epic in Ancient India	W1	Myths of creation Gods and goddesses of the Vedic pantheon. Connections with myths in other parts of the world, particularly in the Indo-European tradition. Literary representations of the myths.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.	
ASIA_V 309-011	ASIA_V	309	011	South Asian Beyond South Asia	W1	A history of South Asian peoples and communities that emigrated overseas, including Indo-Canadians.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
ASIA_V 310-H_011	ASIA_V	310	H	H_011	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_012	ASIA_V	310	H	H_012	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_013	ASIA_V	310	H	H_013	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_014	ASIA_V	310	H	H_014	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged

ASIA_V 310-H_015	ASIA_V	310	H	H_015	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Mon Wed	9:00 a.m. - 11:00 a.m.
ASIA_V 310-H_016	ASIA_V	310	H	H_016	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_017	ASIA_V	310	H	H_017	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_018	ASIA_V	310	H	H_018	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_019	ASIA_V	310	H	H_019	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_020	ASIA_V	310	H	H_020	Studies in the History of a Major Asian Civilization	W1	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_021	ASIA_V	310	H	H_021	Studies in the History of a Major Asian Civilization	W2	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ASIA_V 310-H_022	ASIA_V	310	H	H_022	Studies in the History of a Major Asian Civilization	W2	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ASIA_V 310-H_023	ASIA_V	310	H	H_023	Studies in the History of a Major Asian Civilization	W2	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 310-H_024	ASIA_V	310	H	H_024	Studies in the History of a Major Asian Civilization	W2	Study of an Asian culture area different from those covered in existing courses. Not given every year. Consult Department for details. May be taken multiple times on different subjects for credit.	In Person Learning	Arranged	Arranged
ASIA_V 311-021	ASIA_V	311		021	Tibetan Buddhism	W2	Religious terrain of the Tibetan cultural realm, looking at the history and development of Tibetan Buddhism and key ideas of the four main Tibetan Buddhist traditions.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ASIA_V 313-011	ASIA_V	313		011	Tibetan and Himalayan Culture and Society	W1	History and culture of the Himalayan regions, including India, China, Tibet, Nepal, and Bhutan.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ASIA_V 314-011	ASIA_V	314		011	Premodern Japan	W1	Japanese history (political, economic, social and cultural) to 1600.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ASIA_V 314-021	ASIA_V	314		021	Premodern Japan	W2	Japanese history (political, economic, social and cultural) to 1600.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ASIA_V 315-021	ASIA_V	315		021	Japan from Feudal to Modern State	W2	Japanese history from 1600 to the Meiji Restoration. Political, economic, social and cultural forces which were involved in transforming Japan.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ASIA_V 317-021	ASIA_V	317		021	The Rise of Korean Civilization	W2	The evolution of a distinctive Korean civilization within the East Asian cultural sphere. Primary focus on cultural, social and political development from the earliest times to the sixteenth century.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ASIA_V 319-011	ASIA_V	319		011	Contemporary Chinese Popular Cultures	W1	Chinese popular cultures of the late twentieth and early twenty-first centuries, in relation to social changes, national policies, individual choices, everyday experience, and globalization.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
ASIA_V 320-011	ASIA_V	320		011	History of Early China	W1	History of China from the earliest times to the disintegration of the Tang empire. Students will acquire the analytical skills and tools to understand the origins and foundations of Chinese society. Credit will be granted for only one of ASIA 320 or HIST 378. Equivalency: HIST 378	Online Learning	Mon	2:00 p.m. - 5:00 p.m.
ASIA_V 320-021	ASIA_V	320		021	History of Early China	W2	History of China from the earliest times to the disintegration of the Tang empire. Students will acquire the analytical skills and tools to understand the origins and foundations of Chinese society. Credit will be granted for only one of ASIA 320 or HIST 378. Equivalency: HIST 378	Online Learning	Mon	11:00 a.m. - 12:30 p.m.
ASIA_V 323-021	ASIA_V	323		021	History of Cantonese Worlds	W2	The history, culture, languages, and identities of the multi-faceted Cantonese worlds, in the context of Chinese history and the Cantonese diaspora. Credit will be granted for only one of ASIA 323 or HIST 377. Equivalency: HIST 377	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
ASIA_V 324-021	ASIA_V	324		021	Literature of Hong Kong	W2	A survey of the literature of Hong Kong, from classical times to the present. Important periods in literary history (imperial, colonial, post-colonial), major authors (locals, visitors, and writers elsewhere), and important genres, including poetry, essays, and fiction.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASIA_V 325-011	ASIA_V	325		011	Hong Kong Cinema	W1	A survey of the cinema of Hong Kong from the post-war period to the present. The influence of Hong Kong on global cinema, and the forces (artists, studios, audiences, etc.) that have given rise to filmmaking styles and genres perceived as distinctively Hong Kong.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
ASIA_V 326-011	ASIA_V	326		011	Critical Approaches to Manga and Anime	W1	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.

ASIA_V 326-012	ASIA_V	326	012	Critical Approaches to Manga and Anime	W1	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ASIA_V 326-013	ASIA_V	326	013	Critical Approaches to Manga and Anime	W1	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ASIA_V 326-014	ASIA_V	326	014	Critical Approaches to Manga and Anime	W1	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ASIA_V 326-021	ASIA_V	326	021	Critical Approaches to Manga and Anime	W2	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ASIA_V 326-022	ASIA_V	326	022	Critical Approaches to Manga and Anime	W2	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASIA_V 326-023	ASIA_V	326	023	Critical Approaches to Manga and Anime	W2	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ASIA_V 326-024	ASIA_V	326	024	Critical Approaches to Manga and Anime	W2	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ASIA_V 326-025	ASIA_V	326	025	Critical Approaches to Manga and Anime	W2	A critical introduction to Japanese manga and anime in the 20th and 21st centuries.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ASIA_V 327-011	ASIA_V	327	011	Korean Popular Music in Context	W1	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ASIA_V 327-012	ASIA_V	327	012	Korean Popular Music in Context	W1	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	Online Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ASIA_V 327-013	ASIA_V	327	013	Korean Popular Music in Context	W1	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASIA_V 327-014	ASIA_V	327	014	Korean Popular Music in Context	W1	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ASIA_V 327-015	ASIA_V	327	015	Korean Popular Music in Context	W1	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Arranged	Arranged
ASIA_V 327-016	ASIA_V	327	016	Korean Popular Music in Context	W1	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Arranged	Arranged
ASIA_V 327-017	ASIA_V	327	017	Korean Popular Music in Context	W1	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Arranged	Arranged
ASIA_V 327-021	ASIA_V	327	021	Korean Popular Music in Context	W2	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	Online Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ASIA_V 327-022	ASIA_V	327	022	Korean Popular Music in Context	W2	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ASIA_V 327-023	ASIA_V	327	023	Korean Popular Music in Context	W2	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ASIA_V 327-024	ASIA_V	327	024	Korean Popular Music in Context	W2	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Arranged	Arranged
ASIA_V 327-025	ASIA_V	327	025	Korean Popular Music in Context	W2	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Arranged	Arranged
ASIA_V 327-026	ASIA_V	327	026	Korean Popular Music in Context	W2	History, contexts, and the genres of Korean popular music. Students will analyze specific artists and songs using a range of approaches. While an understanding of basic concepts of music will be helpful, no previous exposure to ethnomusicology or music performance is required.	In Person Learning	Arranged	Arranged
ASIA_V 328-011	ASIA_V	328	011	Modern Islam	W1	History, culture, values, and sociopolitical movements of the Islamic world from 1500 to the modern day; interconnections between power, politics, gender, and the arts in modern Islamic societies. Recommended as a basis for all other Islamic studies courses.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
ASIA_V 333-011	ASIA_V	333	011	Contemporary South Asian Gender and Sexuality Studies	W1	Main theories and key concepts with a particular focus on the changing status of women, and gender and sexual minorities.	In Person Learning	Arranged	Arranged

ASIA_V 333-021	ASIA_V	333	021	Contemporary South Asian Gender and Sexuality Studies	W2	Main theories and key concepts with a particular focus on the changing status of women, and gender and sexual minorities.	Online Learning	Mon	11:00 a.m. - 12:30 p.m.	
ASIA_V 334-011	ASIA_V	334	011	Writing Women in Premodern East Asia	W1	The construction of gender in literary writings by and about women in select areas of premodern East Asia.	Hybrid Learning	Thu	2:00 p.m. - 3:30 p.m.	
ASIA_V 336-011	ASIA_V	336	011	Sufi and Bhakti Devotional Literatures	W1	Sufi and Bhakti thought and tradition in South Asia through literary works in translation.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.	
ASIA_V 337-021	ASIA_V	337	021	The Korean People in Modern Times (1600 to the present)	W2	The transformation of Korea from a Confucian state into an industrial nation. The rise of nationalism and modern ideologies in Korea. Cultural, social and economic changes Korea has undergone as it has entered the modern world.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.	
ASIA_V 339-021	ASIA_V	339	021	The Construction of South Asian Communities in the Diaspora	W2	An examination of contemporary South Asian communities in the diaspora. Topics of particular importance are family life, religious life, notions of space, communal memory, literary and visual representation.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
ASIA_V 342-011	ASIA_V	342	011	Chinese Literature in Translation: The Vernacular Tradition	W1	Readings in drama and fiction, 800 to 1800 AD. The emergence of vernacular genres as distinct from and sometimes opposed to the existing classical genres.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
ASIA_V 344-A_011	ASIA_V	344	A	A_011	Topics in Japanese Cultural History I: Aristocrats and Warriors	W1	Focuses each year on a specific topic related to the courtly or warrior culture of Japan.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASIA_V 346-A_021	ASIA_V	346	A	A_021	Topics in Japanese Cultural History II: The Early Modern Age	W2	Focuses each year on a specific topic related to the culture of early modern Japan.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ASIA_V 348-021	ASIA_V	348	021	Poetic Life in Classical India	W2	Cultural explorations in the poetry, theatre, and ornate prose writings of India in the classical period (c. 300-1300 CE).	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
ASIA_V 351-011	ASIA_V	351	011	Modern Chinese Fiction in Translation	W1	Reading of selected novels and stories written between 1750 and the present.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
ASIA_V 351-021	ASIA_V	351	021	Modern Chinese Fiction in Translation	W2	Reading of selected novels and stories written between 1750 and the present.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
ASIA_V 353-021	ASIA_V	353	021	Introduction to Hindi Film	W2	History, aesthetics, politics, and social roles of Bollywood films. Films will be subtitled.	Hybrid Learning	Thu	4:00 p.m. - 5:00 p.m.	
ASIA_V 354-021	ASIA_V	354	021	Introduction to Japanese Cinema	W2	Students will be introduced to the work of the major directors (e.g., Ozu, Mizoguchi, Kurosawa, Itami, Oshima, Shinoda). Ideological uses of literary texts and period pieces (e.g., Ugetsu, Life of Oharu, Double Suicide). Impact of depiction of Japanese in American film.	Online Learning	Tue Thu	10:00 a.m. - 12:00 p.m.	
ASIA_V 355-011	ASIA_V	355	011	History of Chinese Cinema	W1	Introduction to the work of major directors.	Hybrid Learning	Wed	4:00 p.m. - 6:00 p.m.	
ASIA_V 355-012	ASIA_V	355	012	History of Chinese Cinema	W1	Introduction to the work of major directors.	Online Learning	Mon	4:00 p.m. - 6:00 p.m.	
ASIA_V 355-021	ASIA_V	355	021	History of Chinese Cinema	W2	Introduction to the work of major directors.	Hybrid Learning	Wed	3:00 p.m. - 5:00 p.m.	
ASIA_V 355-022	ASIA_V	355	022	History of Chinese Cinema	W2	Introduction to the work of major directors.	Hybrid Learning	Arranged	Arranged	
ASIA_V 356-011	ASIA_V	356	011	Korean Cinema	W1	Introduction to the work of the major film makers.	In Person Learning	Mon Wed	12:00 p.m. - 2:00 p.m.	
ASIA_V 359-011	ASIA_V	359	011	Afghan History	W1	Afghan history as it unfolded from the Eurasian empires to the modern era of nation-building and internationalism.	In Person Learning	Arranged	Arranged	
ASIA_V 361-011	ASIA_V	361	011	Modern Chinese Fiction in Translation II	W1	A thematic survey of modern Chinese fiction and film in translation.	Hybrid Learning	Thu	9:30 a.m. - 11:00 a.m.	
ASIA_V 363-011	ASIA_V	363	011	Fiction and Film from Modern Taiwan	W1	A reading-intensive survey of literary and cinematic culture in Taiwan since the early 20th century: colonialism, the national divide, nativism, trauma, cosmopolitanism, and utopian imaginings.	In Person Learning	Arranged	Arranged	
ASIA_V 363-021	ASIA_V	363	021	Fiction and Film from Modern Taiwan	W2	A reading-intensive survey of literary and cinematic culture in Taiwan since the early 20th century: colonialism, the national divide, nativism, trauma, cosmopolitanism, and utopian imaginings.	Online Learning	Fri	11:00 a.m. - 2:00 p.m.	
ASIA_V 364-A_021	ASIA_V	364	A	A_021	Modern Japanese Literature in Translation	W2	An introduction to the literature and cultural history of modern Japan, with readings drawn from various literary genres, from 1868 to the present.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.

ASIA_V 365-021	ASIA_V	365		021	Punjabi Cinema	W2	Punjabi culture, history, and social values through films. The class includes film viewings and seminar discussions. Films will be subtitled.	In Person Learning	Arranged	Arranged
ASIA_V 366-A_021	ASIA_V	366	A	A_021	Topics in Asian Studies	W2	Thematically-organized topics in Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	Online Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ASIA_V 366-C_011	ASIA_V	366	C	C_011	Topics in Asian Studies	W1	Thematically-organized topics in Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	Hybrid Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ASIA_V 366-D_021	ASIA_V	366	D	D_021	Topics in Asian Studies	W2	Thematically-organized topics in Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	In Person Learning	Arranged	Arranged
ASIA_V 366-E_011	ASIA_V	366	E	E_011	Topics in Asian Studies	W1	Thematically-organized topics in Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
ASIA_V 367-011	ASIA_V	367		011	Contemporary Korean Culture	W1	An introduction to the literature, drama, music, and art of Korea today. Particular attention will be paid to the continuing influence of traditional themes and forms.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ASIA_V 367-021	ASIA_V	367		021	Contemporary Korean Culture	W2	An introduction to the literature, drama, music, and art of Korea today. Particular attention will be paid to the continuing influence of traditional themes and forms.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ASIA_V 368-A_021	ASIA_V	368	A	A_021	Modern Literatures of South Asia in Translation	W2	Fiction, drama, and/or poetry of modern India, Pakistan, Bangladesh, and/or Sri Lanka, including works in translation and/or originally written in English.	In Person Learning	Arranged	Arranged
ASIA_V 370-011	ASIA_V	370		011	The Sanskrit Cosmopolis: India and the World, 200-1500 CE	W1	Languages, religions, art forms, and political structures of Asian societies shaped by creative encounters with Sanskrit.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ASIA_V 371-011	ASIA_V	371		011	Foundations of Chinese Thought	W1	Early (pre 221 BCE) Chinese thought (Confucianism, Daoism, Mohism, Legalism), its contemporary implications, and the role of philosophy and religion in human flourishing./Credit will only be granted for one of PHIL 371 or ASIA 371. Equivalency: PHIL371	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASIA_V 371-021	ASIA_V	371		021	Foundations of Chinese Thought	W2	Early (pre 221 BCE) Chinese thought (Confucianism, Daoism, Mohism, Legalism), its contemporary implications, and the role of philosophy and religion in human flourishing./Credit will only be granted for one of PHIL 371 or ASIA 371. Equivalency: PHIL371	Online Learning	Mon	2:00 p.m. - 3:30 p.m.
ASIA_V 373-021	ASIA_V	373		021	History of Hong Kong	W2	History, culture, and identities of Hong Kong from the early 1800s to the present. Credit will be granted for only one of ASIA 373 or HIST 373. Equivalency: HIST 373	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
ASIA_V 375-011	ASIA_V	375		011	Global Chinese Cinemas	W1	A survey of Chinese cinemas in global perspective, covering films, filmmakers, producers, audiences, markets, industries, and critical discourse since the early twentieth century. Covers both cinematic culture and filmmaking technique.	Hybrid Learning	Thu	4:00 p.m. - 6:00 p.m.
ASIA_V 375-021	ASIA_V	375		021	Global Chinese Cinemas	W2	A survey of Chinese cinemas in global perspective, covering films, filmmakers, producers, audiences, markets, industries, and critical discourse since the early twentieth century. Covers both cinematic culture and filmmaking technique.	Hybrid Learning	Thu	3:00 p.m. - 5:00 p.m.
ASIA_V 378-001	ASIA_V	378		001	Philosophical Wisdom of Early India	W1	Epistemological and ontological thought from the Vedic period to the period of the rise of philosophical schools or systems Philosophy in the Mahabharata, Gita; early Buddhist and Jain views on knowledge and reality; views on language. Credit will be granted for only one of ASIA 378 or PHIL 378. Equivalency: PHIL 378	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ASIA_V 386-011	ASIA_V	386		011	Chinese Grammar and Usage I	W1	Analysis of modern Chinese grammar and its usage in various discourses, situating its form and function in relation to social and cultural contexts. Recommended pre-requisites: One of CHIN 207, CHIN 337, CHIN 208, CHIN 338, CHIN 217, CHIN 347, CHIN 218, CHIN 348, or a higher level of Chinese language proficiency.	Multi-access Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ASIA_V 387-021	ASIA_V	387		021	Japanese Religions	W2	An introduction to traditional Japanese religions including Shinto, Buddhism, Shugendo, Confucianism, new religions and folklore, and their roles in Japanese history, culture and society.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
ASIA_V 388-001	ASIA_V	388		001	Classical South Asian Philosophy	W2	Debates on issues of epistemology, language and ontology among the philosophical traditions of classical South Asia. ASIA 378/PHIL 378 is recommended. Credit will be granted for only one of ASIA 388 or PHIL 388. Equivalency: PHIL 388	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ASIA_V 390-011	ASIA_V	390		011	History of the Indian Ocean World	W1	Societies and empires shaped by voyages of exploration, religious pilgrimages, trading diasporas and forced migration in the world of the Indian Ocean.	Hybrid Learning	Thu	12:00 p.m. - 2:00 p.m.
ASIA_V 391-011	ASIA_V	391		011	Classical Islam	W1	History and culture, values, and achievements of Islamic societies from 700-1500; interconnections between power, politics, gender, and the arts in Islamic societies. Recommended as a basis for all other Islamic studies courses.	Online Learning	Mon	9:00 a.m. - 12:00 p.m.
ASIA_V 394-011	ASIA_V	394		011	Post-Revolutionary Iranian Cinema	W1	Gender politics, family relationships, and women's social, economic, and political roles in post-revolutionary Iran as shown through Iranian cinema.	Online Learning	Thu	2:00 p.m. - 5:00 p.m.
ASIA_V 395-021	ASIA_V	395		021	Modern Persian Literature	W2	Modern Persian literature, including fiction, drama, and/or poetry, of Iran, Afghanistan, and/or Tajikistan dating from the mid-19th to the 21st century (in English translation).	Online Learning	Thu	2:00 p.m. - 5:00 p.m.
ASIA_V 396-021	ASIA_V	396		021	Chinese Grammar and Usage II	W2	Analysis of modern Chinese grammar and its usage in various discourses, situating its form and function in relation to social and cultural contexts. Continuation of ASIA 386. Recommended pre-requisite: ASIA 386 or higher level of Chinese language proficiency.	Online Learning	Fri	2:00 p.m. - 5:00 p.m.

ASIA_V 397-021	ASIA_V	397	021	The Idea of India	W2	History of cultural ideas that led to India's transformation from a traditional, colonial society tied to the British empire to a postcolonial, pluralistic, development oriented parliamentary democracy.	Online Learning	Wed	4:00 p.m. - 7:00 p.m.	
ASIA_V 398-021	ASIA_V	398	021	Narrative Literature in Premodern India	W2	Stories of gods, goddesses and religious heroes from the Ramayana, Mahabharata, Puranas, Avadanas and in classical poetry and drama.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.	
ASIA_V 399-021	ASIA_V	399	021	Films of the South Asian Diaspora	W2	Contemporary films of the South Asian Diaspora, with a focus on Canada, US, and UK. Emphasizes theories of representation, visual and cultural analysis.	Online Learning	Wed	2:00 p.m. - 3:30 p.m.	
ASIA_V 410-011	ASIA_V	410	011	International Relations in Premodern East Asia	W1	International relations, particularly between Korea and Japan in the premodern East Asian context, focusing on migration, trade, diplomacy, war, collective memory, mutual perceptions, and the context of the Sinocentric international order.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.	
ASIA_V 411-011	ASIA_V	411	011	Chinese Political Thought and Institutions	W1	Chinese theories and practices of government and administration from earliest times to 1949.	Online Learning	Mon	11:00 a.m. - 2:00 p.m.	
ASIA_V 411-021	ASIA_V	411	021	Chinese Political Thought and Institutions	W2	Chinese theories and practices of government and administration from earliest times to 1949.	Online Learning	Fri	2:00 p.m. - 5:00 p.m.	
ASIA_V 419-021	ASIA_V	419	021	Economic History of India	W2	Examines the material foundations of Indian history. Considers India's place in the premodern world, different phases of globalization, processes and legacies of European colonial rule, and the development of India's modern economy.	In Person Learning	Arranged	Arranged	
ASIA_V 429-011	ASIA_V	429	011	Rebels, Martyrs, and Outlaws in Early Modern Japan	W1	The social history of early modern Japan with a particular focus on the patterns of organized protests, rebellions, and movements under samurai rule.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.	
ASIA_V 430-021	ASIA_V	430	021	International Relations in Modern East Asia: Korea and Japan	W2	Trade, diplomacy, war, imperialism, militarism, colonialism, collective memory, mutual perceptions Korean-Japanese relations are examined as an exemplary case for exploring the dimensions of international conflict and partnership.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
ASIA_V 433-011	ASIA_V	433	011	Representations of Muslims in Hindi/Urdu Films	W1	Depictions of Muslims in relation to the majoritarian community as well as other minorities in South Asian cinema, with a particular focus on the Hindi/Urdu film industry. Prerequisite: Second-year standing and above.	Online Learning	Mon	11:00 a.m. - 12:30 p.m.	
ASIA_V 441-A_011	ASIA_V	441	A	A_011	Masterworks of Chinese Fiction and Drama in Translation	W1	Reading of a classic novel or play, with attention to intellectual, social, and political subtexts as well as aesthetic dimensions and problems of interpretation.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ASIA_V 444-A_021	ASIA_V	444	A	A_021	Topics in Modern Japanese Fiction and Cultural History	W2	Focuses on a limited time period or particular aspect of modern Japanese literature.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
ASIA_V 453-011	ASIA_V	453	011	Japanese Travel Literature	W1	Japanese travel literature (myths, legends, poetry, tales, diaries, illustrated guides, satiric sermons, haiku, comic fiction, colonial reporting, and ethnography) from the 8th century to present. Restricted to fourth-year Asian Studies majors. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
ASIA_V 456-011	ASIA_V	456	011	History and Culture of Taiwan	W1	The major social, economic, political, and cultural changes in Taiwan since the seventeenth century; the post-World War II process of democratization and Taiwan's place in the contemporary world.	Online Learning	Fri	11:00 a.m. - 2:00 p.m.	
ASIA_V 461-011	ASIA_V	461	011	Gender and Sexuality in Modern Iranian Narratives	W1	Literary, cinematic, folk, and/or popular culture texts from modern Iran. Emphasis on constructions and contestations of masculinities and femininities, as they intersect with sexuality, race, ethnicity, ability, and/or religion.	Online Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ASIA_V 464-021	ASIA_V	464	021	Japanese Women's Self-Writing	W2	Selected aspects of the more than 1000 years of self-writing (diary, autobiography, personal fiction). Theory and criticism about the use of writing as a medium of self-expression.	In Person Learning	Arranged	Arranged	
ASIA_V 465-011	ASIA_V	465	011	Japanese Horror	W1	The genre of Japanese visual horror explored through formal visual literacy, genre theory, and textual analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: Second-year standing and above.	In Person Learning	Wed	5:00 p.m. - 9:00 p.m.	
ASIA_V 470-011	ASIA_V	470	011	Comparative Conceptions of the Self	W1	Ways in which the self has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Xunzi (Hsn-tzu), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be granted for only one of ASIA 470 or PHIL 470. Equivalency: PHIL 470	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
ASIA_V 470-021	ASIA_V	470	021	Comparative Conceptions of the Self	W2	Ways in which the self has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Xunzi (Hsn-tzu), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be granted for only one of ASIA 470 or PHIL 470. Equivalency: PHIL 470	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ASIA_V 476-A_021	ASIA_V	476	A	A_021	Topics in South Asian Studies	W2	Seminar class designed to explore current scholarly debates in South Asian and Sikh Studies. May be repeated for credit with permission of instructor. Credit will be granted for only one of ASIA 476 or ASIA 576. Prerequisite: Restricted to students with 2nd year standing or above.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ASIA_V 476-C_046	ASIA_V	476	C	C_046	Topics in South Asian Studies	W1	Seminar class designed to explore current scholarly debates in South Asian and Sikh Studies. May be repeated for credit with permission of instructor. Credit will be granted for only one of ASIA 476 or ASIA 576. Prerequisite: Restricted to students with 2nd year standing or above.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
ASIA_V 490-H_021	ASIA_V	490	H	H_021	Asian Classics - Fourth Year Seminar	W2	Focus changes from year to year. Restricted to fourth-year Asian Studies majors.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ASIA_V 491-011	ASIA_V	491	011	India and the Persianate World	W1	Histories of Muslim Empires, spanning Iran, India and Central Asia, from 1000-1800 CE. Examined through the conceptual lens of the Persianate World with emphasis on Persianate culture and power in South Asia. Restricted to fourth-year Asian Studies majors.	In Person Learning	Arranged	Arranged	

ASIA_V 491-021	ASIA_V	491	021	India and the Persianate World	W2	Histories of Muslim Empires, spanning Iran, India and Central Asia, from 1000-1800 CE. Examined through the conceptual lens of the Persianate World with emphasis on Persianate culture and power in South Asia. Restricted to fourth-year Asian Studies majors.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
ASIA_V 495-011	ASIA_V	495	011	Folk Cultures in the Asian Diaspora	W1	The mediation of folklore (e.g. slang, songs, games, dance, foodways) in the everyday lives of immigrant and transnational Asian communities. Emphasis on Asian-Canadian folklore in Greater Vancouver through digital documentary media production and archival folklore research. Restricted to fourth-year Asian Studies majors. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
ASIA_V 508-A_017	ASIA_V	508	A	A_017	Topics in Pre-modern Chinese History and Institutions	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASIA_V 508-B_017	ASIA_V	508	B	B_017	Topics in Pre-modern Chinese History and Institutions	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
ASIA_V 513-B_034	ASIA_V	513	B	B_034	Topics in Classical Chinese Literature	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
ASIA_V 514-B_026	ASIA_V	514	B	B_026	Topics in Modern Chinese Literature	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ASIA_V 516-028	ASIA_V	516	028	Race and Ethnicity in Asian Studies	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	4:00 p.m. - 5:30 p.m.	
ASIA_V 517-035	ASIA_V	517	035	Chinese Media Studies: Theories and Histories	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.	
ASIA_V 518-033	ASIA_V	518	033	New Media and Asia	W2	New media theory, technologies, industries, cultures, and analytical practices with a focus on transnational Asian interactive media such as video games, mobile apps, social media, video streaming sites and services, and online fan networks. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 1:00 p.m.	
ASIA_V 519-031	ASIA_V	519	031	Popular Cultures in Asia	W2	Critical engagement with different disciplinary approaches to the study of Asian popular cultures. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	4:00 p.m. - 5:30 p.m.	
ASIA_V 521-A_007	ASIA_V	521	A	A_007	Research Methods and Source Materials in Japanese Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 12:30 p.m.
ASIA_V 532-A_021	ASIA_V	532	A	A_021	Topics in Traditional Japanese Literature	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
ASIA_V 532-B_009	ASIA_V	532	B	B_009	Topics in Traditional Japanese Literature	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
ASIA_V 535-033	ASIA_V	535	033	Japanese Cinema Studies: Theory and Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.	
ASIA_V 570-B_040	ASIA_V	570	B	B_040	Approaches to Asian Literature	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 12:30 p.m.
ASIA_V 570-B_042	ASIA_V	570	B	B_042	Approaches to Asian Literature	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASIA_V 574-040	ASIA_V	574	040	From the Chronicle to the Archive: Cultures of History in South Asia	W2	Examines how South Asian pasts have been memorialized in writing, from medieval chronicles to the development of history as a modern academic discipline in the nineteenth century. Credit will be granted for only one of ASIA 474 or ASIA 574. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 12:30 p.m.	
ASIA_V 576-A_032	ASIA_V	576	A	A_032	Topics in South Asian Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASIA_V 576-C_046	ASIA_V	576	C	C_046	Topics in South Asian Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
ASIA_V 580-A_004	ASIA_V	580	A	A_004	Directed Readings	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASIA_V 580-A_006	ASIA_V	580	A	A_006	Directed Readings	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASIA_V 580-A_037	ASIA_V	580	A	A_037	Directed Readings	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

ASIA_V 580-A_038	ASIA_V	580	A	A_038	Directed Readings	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASIA_V 580-A_604	ASIA_V	580	A	A_604	Directed Readings	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASIA_V 590-A_036	ASIA_V	590	A	A_036	Theories & Methods Thinking with the Body Embodied Cognition and the Study of Culture	W2	Focus changes from year to year, please check the Department website for current course syllabi. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
ASIA_V 590-B_004	ASIA_V	590	B	B_004	Theories & Methods Thinking with the Body Embodied Cognition and the Study of Culture	W2	Focus changes from year to year, please check the Department website for current course syllabi. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.
ASIA_V 591-010	ASIA_V	591		010	Critical Issues in Asian Studies	W1	Proseminar introducing major methodological and conceptual themes in the contemporary study of Asia, modern and pre-modern. Required of all Asian Studies PhD students, normally in their first year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
ASIA_V 592-005	ASIA_V	592		005	The Profession of Asian Studies	W2	Introduction to essential skills for academic and professional work in Asian Studies. Outlines career trajectories in the PhD and beyond, including grant applications, cv-writing, and job searches. Required of Asian Studies PhD students, normally in their first year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 7:30 p.m.
ASIA_V 599-B_001	ASIA_V	599	B	B_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASIA_V 599-B_002	ASIA_V	599	B	B_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASIA_V 599-B_101	ASIA_V	599	B	B_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASIA_V 699-001	ASIA_V	699		001	Doctoral Dissertation	W1-2	In Chinese, Japanese, Korean, or South Asian Studies only.	In Person Learning	Arranged	Arranged
ASIA_V 699-002	ASIA_V	699		002	Doctoral Dissertation	W2	In Chinese, Japanese, Korean, or South Asian Studies only.	In Person Learning	Arranged	Arranged
ASIA_V 699-101	ASIA_V	699		101	Doctoral Dissertation	W1	In Chinese, Japanese, Korean, or South Asian Studies only.	In Person Learning	Arranged	Arranged
ASIC_V 200-BA2	ASIC_V	200		BA2	Global Issues in the Arts and Sciences	W2	Selected global issues explored through the methodologies and perspectives of both the physical and life sciences and the humanities and social sciences. [3-0-0] Prerequisite: Second year standing in the Faculty of Arts or Faculty of Science.	In Person Learning	Arranged	Arranged
ASIC_V 220-001	ASIC_V	220		001	Introduction to Sustainability	W2	Sustainability examined from scientific, economic, and societal perspectives. [3-0-0] Prerequisite: Second-year standing.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ASIX_V 220-011	ASIX_V	220		011	Indigenities in Asia and Asian Diaspora	W1	Introduction to Indigenous methodologies, contemporary cultures, and issues of Indigenous peoples in Asia and Asian diaspora, and Indigenous-Asia relation-making in Canada.	Multi-access Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASIX_V 300-A_021	ASIX_V	300	A	A_021	Topics in Asian Studies Crossings	W2	Transnational, transcultural, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	Multi-access Learning	Arranged	Arranged
ASIX_V 300-B_011	ASIX_V	300	B	B_011	Topics in Asian Studies Crossings	W1	Transnational, transcultural, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	In Person Learning	Arranged	Arranged
ASIX_V 300-D_011	ASIX_V	300	D	D_011	Topics in Asian Studies Crossings	W1	Transnational, transcultural, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
ASIX_V 300-E_011	ASIX_V	300	E	E_011	Topics in Asian Studies Crossings	W1	Transnational, transcultural, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
ASIX_V 315-021	ASIX_V	315		021	Hong Kong Diaspora in Canada	W2	Various social issues relating to Hong Kong diaspora in Canada, particularly pertaining to their long history of migration to Canada; their cultural developments and experiences; and their challenges and contributions in their new cultural environment. Recommended: Second-year standing or higher	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
ASL_V 100-001	ASL_V	100		001	American Sign Language and Deaf Culture I	W1	An introduction to understanding and producing American Sign Language. Emphasizes core grammar and vocabulary, contextual use, connection between language and Deaf culture. For students new to ASL.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.
ASL_V 100-002	ASL_V	100		002	American Sign Language and Deaf Culture I	W2	An introduction to understanding and producing American Sign Language. Emphasizes core grammar and vocabulary, contextual use, connection between language and Deaf culture. For students new to ASL.	In Person Learning	Tue Thu	12:00 p.m. - 2:00 p.m.
ASL_V 100-003	ASL_V	100		003	American Sign Language and Deaf Culture I	W1	An introduction to understanding and producing American Sign Language. Emphasizes core grammar and vocabulary, contextual use, connection between language and Deaf culture. For students new to ASL.	In Person Learning	Mon Wed	3:30 p.m. - 5:30 p.m.

ASL_V 101-002	ASL_V	101	002	American Sign Language and Deaf Culture II	W2	Skills in using ASL in a range of social contexts. Training in grammar and vocabulary that builds fluency, and in using the language appropriately for meaningful interactions with members of the Deaf community. For students with basic ASL conversational ability. Prerequisite: ASL 100. or by placement.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
ASTR_V 101-101	ASTR_V	101	101	Introduction to the Solar System	W1	General principles of the celestial sphere, laws of motion and light, optics, and telescopes; current knowledge of the Sun and Solar System. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ASTR_V 101-L1A	ASTR_V	101	L1A	Introduction to the Solar System	W1	General principles of the celestial sphere, laws of motion and light, optics, and telescopes; current knowledge of the Sun and Solar System. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
ASTR_V 101-L1B	ASTR_V	101	L1B	Introduction to the Solar System	W1	General principles of the celestial sphere, laws of motion and light, optics, and telescopes; current knowledge of the Sun and Solar System. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
ASTR_V 101-L1C	ASTR_V	101	L1C	Introduction to the Solar System	W1	General principles of the celestial sphere, laws of motion and light, optics, and telescopes; current knowledge of the Sun and Solar System. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
ASTR_V 101-L1D	ASTR_V	101	L1D	Introduction to the Solar System	W1	General principles of the celestial sphere, laws of motion and light, optics, and telescopes; current knowledge of the Sun and Solar System. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
ASTR_V 101-L1E	ASTR_V	101	L1E	Introduction to the Solar System	W1	General principles of the celestial sphere, laws of motion and light, optics, and telescopes; current knowledge of the Sun and Solar System. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
ASTR_V 101-L1F	ASTR_V	101	L1F	Introduction to the Solar System	W1	General principles of the celestial sphere, laws of motion and light, optics, and telescopes; current knowledge of the Sun and Solar System. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
ASTR_V 102-201	ASTR_V	102	201	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ASTR_V 102-L2A	ASTR_V	102	L2A	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
ASTR_V 102-L2B	ASTR_V	102	L2B	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
ASTR_V 102-L2C	ASTR_V	102	L2C	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
ASTR_V 102-L2D	ASTR_V	102	L2D	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
ASTR_V 102-L2E	ASTR_V	102	L2E	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
ASTR_V 102-L2F	ASTR_V	102	L2F	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
ASTR_V 102-L2G	ASTR_V	102	L2G	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
ASTR_V 102-L2H	ASTR_V	102	L2H	Introduction to Stars and Galaxies	W2	Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes; galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. [3-2*-0] Prerequisite: One of PHYS 11, PHYS 12, PHYS 100. and Principles of Mathematics 12.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
ASTR_V 200-101	ASTR_V	200	101	Frontiers of Astrophysics	W1	Stellar masses and evolution. White dwarfs, neutron stars, and black holes. Extrasolar planet formation and detection. Dark matter in the Milky Way and other galaxies. Cosmological observations and principles. [3-0-0] Prerequisite: Either (a) one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, PHYS 153 and one of MATH 101, MATH 103, MATH 105, MATH 121; or (b) SCIE 001.	In Person Learning	Mon Fri	12:00 p.m. - 1:00 p.m.
ASTR_V 200-T1A	ASTR_V	200	T1A	Frontiers of Astrophysics	W1	Stellar masses and evolution. White dwarfs, neutron stars, and black holes. Extrasolar planet formation and detection. Dark matter in the Milky Way and other galaxies. Cosmological observations and principles. [3-0-0] Prerequisite: Either (a) one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, PHYS 153 and one of MATH 101, MATH 103, MATH 105, MATH 121; or (b) SCIE 001.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
ASTR_V 205-201	ASTR_V	205	201	Stars and Stellar Populations	W2	Measurement of positions, motions, and distances in astronomy. Temperature, masses, and spectra of stars. Hertzsprung-Russell diagram. Quantitative stellar structure and evolution. Chemical composition of stars in different Galactic populations. Globular and open star clusters. [3-0-0] Prerequisite: ASTR 200 and one of PHYS 210, EOSC 211, CPSC 302, CPSC 303.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ASTR_V 300-101	ASTR_V	300	101	Galaxies	W1	Structure and kinematics of our galaxy. Spiral arms and dynamics of stars in spiral and elliptical galaxies. Galactic formation, evolution, dynamics, and groups. Active galaxies and quasars. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ASTR 205 and one of PHYS 210, EOSC 211, CPSC 302, CPSC 303. Corequisite: One of MATH 217, MATH 227, MATH 317.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ASTR_V 310-101	ASTR_V	310	101	Exploring the Universe: The Solar System	W1	A survey of recent discoveries about the planets and other objects in the solar system, without the use of advanced mathematics. The Sun, the existence of planetary systems around other stars, and the search for life. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.

ASTR_V 310-T1A	ASTR_V	310		T1A	Exploring the Universe: The Solar System	W1	A survey of recent discoveries about the planets and other objects in the solar system, without the use of advanced mathematics. The Sun, the existence of planetary systems around other stars, and the search for life. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
ASTR_V 310-T1B	ASTR_V	310		T1B	Exploring the Universe: The Solar System	W1	A survey of recent discoveries about the planets and other objects in the solar system, without the use of advanced mathematics. The Sun, the existence of planetary systems around other stars, and the search for life. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
ASTR_V 310-T1C	ASTR_V	310		T1C	Exploring the Universe: The Solar System	W1	A survey of recent discoveries about the planets and other objects in the solar system, without the use of advanced mathematics. The Sun, the existence of planetary systems around other stars, and the search for life. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
ASTR_V 311-201	ASTR_V	311		201	Exploring the Universe: Stars and Galaxies	W2	A survey of recent discoveries in modern astronomy without the use of advanced mathematics. Stars, pulsars, black holes, galaxies, quasars and the origin and evolution of the Universe. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ASTR_V 311-202	ASTR_V	311		202	Exploring the Universe: Stars and Galaxies	W2	A survey of recent discoveries in modern astronomy without the use of advanced mathematics. Stars, pulsars, black holes, galaxies, quasars and the origin and evolution of the Universe. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Arranged	Arranged
ASTR_V 311-T2A	ASTR_V	311		T2A	Exploring the Universe: Stars and Galaxies	W2	A survey of recent discoveries in modern astronomy without the use of advanced mathematics. Stars, pulsars, black holes, galaxies, quasars and the origin and evolution of the Universe. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
ASTR_V 311-T2B	ASTR_V	311		T2B	Exploring the Universe: Stars and Galaxies	W2	A survey of recent discoveries in modern astronomy without the use of advanced mathematics. Stars, pulsars, black holes, galaxies, quasars and the origin and evolution of the Universe. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
ASTR_V 311-T2C	ASTR_V	311		T2C	Exploring the Universe: Stars and Galaxies	W2	A survey of recent discoveries in modern astronomy without the use of advanced mathematics. Stars, pulsars, black holes, galaxies, quasars and the origin and evolution of the Universe. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
ASTR_V 311-T2D	ASTR_V	311		T2D	Exploring the Universe: Stars and Galaxies	W2	A survey of recent discoveries in modern astronomy without the use of advanced mathematics. Stars, pulsars, black holes, galaxies, quasars and the origin and evolution of the Universe. Not open to first year students and not for credit in the Faculties of Science and Applied Science. [3-0-1*]	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
ASTR_V 333-101	ASTR_V	333		101	Exoplanets and Astrobiology	W1	Observations and basic characteristics of extrasolar planets, including their formation, evolution, and potential for supporting life. [3-0-0] Prerequisite: One of PHYS 101, PHYS 102, PHYS 106, PHYS 107, PHYS 108, PHYS 117, PHYS 118, PHYS 131, PHYS 153, PHYS 157, PHYS 158, SCIE 001 and one of MATH 200, MATH 217, MATH 253, STAT 200, STAT 203, STAT 241, BIOL 300, COMM 291, ECON 325, EPSE 482, EPSE 483, FRST 231, GEOG 374, KIN 371, POLI 380, PSYC 217, PSYC 218, PSYC 277, PSYC 278, PSYC 366, SOCI 328.	In Person Learning	Arranged	Arranged
ASTR_V 333-201	ASTR_V	333		201	Exoplanets and Astrobiology	W2	Observations and basic characteristics of extrasolar planets, including their formation, evolution, and potential for supporting life. [3-0-0] Prerequisite: One of PHYS 101, PHYS 102, PHYS 106, PHYS 107, PHYS 108, PHYS 117, PHYS 118, PHYS 131, PHYS 153, PHYS 157, PHYS 158, SCIE 001 and one of MATH 200, MATH 217, MATH 253, STAT 200, STAT 203, STAT 241, BIOL 300, COMM 291, ECON 325, EPSE 482, EPSE 483, FRST 231, GEOG 374, KIN 371, POLI 380, PSYC 217, PSYC 218, PSYC 277, PSYC 278, PSYC 366, SOCI 328.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ASTR_V 349-001	ASTR_V	349		001	Directed Research Project in Astronomy	W1-2	A research project, undertaken under the direction of a faculty member, culminating in a written report. Requires approval of the course instructor and program advisor in the Department of Physics and Astronomy. [1*-6-0]	In Person Learning	Arranged	Arranged
ASTR_V 403-201	ASTR_V	403		201	Cosmology	W2	Introduction to the study of the Universe as a whole. Foundations of the Hot Big Bang model, the early Universe, nucleosynthesis, the cosmic microwave background, large-scale structure, galaxy formation and quasars. Credit will be granted for only one of ASTR 403 or PHYS 571. [3-0-0] Prerequisite: One of PHYS 200, PHYS 250. ASTR 300 is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASTR_V 404-101	ASTR_V	404		101	Astronomical and Astrophysical Measurements	W1	Astronomical instrumentation and techniques for ground and space-based observations. Theory of measurement, imaging, interferometry and spectroscopy of electromagnetic radiation at optical, radio, infrared, and X-ray wavelengths. Astronomical data analysis. [3-0-0] Prerequisite: All of PHYS 210, PHYS 408 and one of PHYS 312, MATH 316.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ASTR_V 405-L2A	ASTR_V	405		L2A	Astronomical Laboratory	W2	Experiments in the use of astronomical instrumentation and data analysis. Use of the 40-cm reflector, spectrograph and electronic detectors. Photometric and spectroscopic analysis of digital data. [0-0-3] Prerequisite: [ASTR404]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ASTR_V 406-101	ASTR_V	406		101	High-Energy Astrophysics	W1	Radiative processes. White dwarfs, neutron stars, and black holes. Accreting systems. Gamma-ray bursts. [3-0-0] Prerequisite: All of PHYS 203, PHYS 301, MATH 215 and ASTR 300.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ASTR_V 407-201	ASTR_V	407		201	Planetary Science	W2	Structure of planetary systems, planetary interiors, planet formation, planetary atmospheres, meteoritics, impact cratering. [3-0-0] Prerequisite: One of PHYS 210, EOSC 211 and one of MATH 217, MATH 227, MATH 317 and one of MATH 316, PHYS 312 and one of ASTR 200, EOSC 212. Corequisite: One of PHYS 206, PHYS 216, PHYS 306, EOSC 352.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ASTR_V 449-001	ASTR_V	449		001	Honours Thesis in Astronomy	W1-2	A research project in astronomy, undertaken under the direction of a faculty member, culminating in a thesis. [1*-6-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ASTR_V 505-B_201	ASTR_V	505	B	B_201	Galactic Astronomy	W2	The study of the structure, content and evolution of our own and other galaxies, including the study of the physical processes occurring in the interstellar medium and galactic nuclei. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ASTR_V 506-A_101	ASTR_V	506	A	A_101	High-Energy Astrophysics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ASTR_V 507-A_201	ASTR_V	507	A	A_201	Planetary Sciences	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.



ASTU_V 100-L_L03	ASTU_V	100	L	L_L03	1st Year CAP Seminar	W1-2	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 100-L_L04	ASTU_V	100	L	L_L04	1st Year CAP Seminar	W1-2	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 100-L_L05	ASTU_V	100	L	L_L05	1st Year CAP Seminar	W2	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 100-L_L06	ASTU_V	100	L	L_L06	1st Year CAP Seminar	W1	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 100-M_M01	ASTU_V	100	M	M_M01	1st Year CAP Seminar	W1-2	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 100-M_M02	ASTU_V	100	M	M_M02	1st Year CAP Seminar	W1-2	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 100-M_M03	ASTU_V	100	M	M_M03	1st Year CAP Seminar	W1-2	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 100-M_M04	ASTU_V	100	M	M_M04	1st Year CAP Seminar	W1-2	CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credits count toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of ASTU 100 or CAP 101.This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.	In Person Learning	Arranged	Arranged
ASTU_V 201-D21	ASTU_V	201		D21	Canada, Japan and the Pacific: Cultural Studies	W2	An interdisciplinary introduction to the cultures of Canada and Japan, and the interrelations between them. Specific topics vary from year to year but will include themes such as constructing the past; nationalism; self-perceptions; cross-cultural perceptions; multiculturalism in Canada and Japan; images in architecture, film and literature; mythologies.	In Person Learning	Tue	3:00 p.m. - 4:30 p.m.
ASTU_V 201-D21	ASTU_V	201		D21	Canada, Japan and the Pacific: Cultural Studies	W2	An interdisciplinary introduction to the cultures of Canada and Japan, and the interrelations between them. Specific topics vary from year to year but will include themes such as constructing the past; nationalism; self-perceptions; cross-cultural perceptions; multiculturalism in Canada and Japan; images in architecture, film and literature; mythologies.	In Person Learning	Thu	3:00 p.m. - 4:30 p.m.
ASTU_V 201-D22	ASTU_V	201		D22	Canada, Japan and the Pacific: Cultural Studies	W2	An interdisciplinary introduction to the cultures of Canada and Japan, and the interrelations between them. Specific topics vary from year to year but will include themes such as constructing the past; nationalism; self-perceptions; cross-cultural perceptions; multiculturalism in Canada and Japan; images in architecture, film and literature; mythologies.	In Person Learning	Thu	3:00 p.m. - 4:30 p.m.
ASTU_V 201-D23	ASTU_V	201		D23	Canada, Japan and the Pacific: Cultural Studies	W2	An interdisciplinary introduction to the cultures of Canada and Japan, and the interrelations between them. Specific topics vary from year to year but will include themes such as constructing the past; nationalism; self-perceptions; cross-cultural perceptions; multiculturalism in Canada and Japan; images in architecture, film and literature; mythologies.	In Person Learning	Thu	4:30 p.m. - 6:00 p.m.
ASTU_V 201-D24	ASTU_V	201		D24	Canada, Japan and the Pacific: Cultural Studies	W2	An interdisciplinary introduction to the cultures of Canada and Japan, and the interrelations between them. Specific topics vary from year to year but will include themes such as constructing the past; nationalism; self-perceptions; cross-cultural perceptions; multiculturalism in Canada and Japan; images in architecture, film and literature; mythologies.	In Person Learning	Thu	4:30 p.m. - 6:00 p.m.
ASTU_V 202-D21	ASTU_V	202		D21	Canada, Japan and the Pacific: Political, Economic and Geographical Perspectives	W2	An interdisciplinary introduction to political, economic and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economies such as Canada's; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region.	In Person Learning	Mon Wed	3:00 p.m. - 4:00 p.m.
ASTU_V 202-D21	ASTU_V	202		D21	Canada, Japan and the Pacific: Political, Economic and Geographical Perspectives	W2	An interdisciplinary introduction to political, economic and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economies such as Canada's; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ASTU_V 202-D22	ASTU_V	202		D22	Canada, Japan and the Pacific: Political, Economic and Geographical Perspectives	W2	An interdisciplinary introduction to political, economic and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economies such as Canada's; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ASTU_V 202-D23	ASTU_V	202		D23	Canada, Japan and the Pacific: Political, Economic and Geographical Perspectives	W2	An interdisciplinary introduction to political, economic and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economies such as Canada's; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region.	In Person Learning	Mon	5:00 p.m. - 6:00 p.m.

ASTU_V 202-D24	ASTU_V	202		D24	Canada, Japan and the Pacific: Political, Economic and Geographical Perspectives	W2	An interdisciplinary introduction to political, economic and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economies such as Canada's; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region.	In Person Learning	Mon	5:00 p.m. - 6:00 p.m.
ASTU_V 204-A_V05	ASTU_V	204	A	A_V05	Topics in Interdisciplinary Arts Studies	W1	Selected interdisciplinary topics in Arts studies. For upcoming offerings including course descriptions and possible enrolment restrictions, please see section information in the UBC course schedule.	In Person Learning	Arranged	Arranged
ASTU_V 204-R_101	ASTU_V	204	R	R_101	Topics in Interdisciplinary Arts Studies	W1	Selected interdisciplinary topics in Arts studies. For upcoming offerings including course descriptions and possible enrolment restrictions, please see section information in the UBC course schedule.	In Person Learning	Arranged	Arranged
ASTU_V 204-R_201	ASTU_V	204	R	R_201	Topics in Interdisciplinary Arts Studies	W2	Selected interdisciplinary topics in Arts studies. For upcoming offerings including course descriptions and possible enrolment restrictions, please see section information in the UBC course schedule.	In Person Learning	Arranged	Arranged
ASTU_V 310-101	ASTU_V	310		101	Co-operative Work Placement I	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Orientation workshops. Final work term report required. Restricted to students in the Arts Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits first-year English or Arts I; 6 credits of science; 6 credits of literature; satisfaction of Faculty language requirement.	In Person Learning	Arranged	Arranged
ASTU_V 310-201	ASTU_V	310		201	Co-operative Work Placement I	W1-2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Orientation workshops. Final work term report required. Restricted to students in the Arts Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits first-year English or Arts I; 6 credits of science; 6 credits of literature; satisfaction of Faculty language requirement.	In Person Learning	Arranged	Arranged
ASTU_V 311-101	ASTU_V	311		101	Co-operative Work Placement II	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report required. Recommended pre-requisite: ASTU 310. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 311-201	ASTU_V	311		201	Co-operative Work Placement II	W1-2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report required. Recommended pre-requisite: ASTU 310. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 399-201	ASTU_V	399		201	Special Topics: Place and Power	W2	Topics will vary from year to year. Restricted to Faculty of Arts students.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ASTU_V 400-D_301	ASTU_V	400	D	D_301	Interdisciplinary Studies in Arts	W1-2	For upper-division students in the Faculty of Arts. Topics announced annually.	In Person Learning	Arranged	Arranged
ASTU_V 400-S_301	ASTU_V	400	S	S_301	Interdisciplinary Studies in Arts	W1-2	For upper-division students in the Faculty of Arts. Topics announced annually.	In Person Learning	Arranged	Arranged
ASTU_V 401-D_201	ASTU_V	401	D	D_201	Special Topics in Arts Studies	W2	Selected topics offered by a distinguished visitor to the campus. For upcoming offerings including course descriptions and possible enrolment restrictions, please see section information in the UBC course schedule.	In Person Learning	Thu	10:00 a.m. - 1:00 p.m.
ASTU_V 402-101	ASTU_V	402		101	Living Language: Science and Society	W1	Multidisciplinary course in which students, individually and in groups, examine, integrate and apply subject-specific knowledge through the lens of language and the framework of the language sciences, with a focus on themes of real-world importance. Prerequisite: Fourth-year standing or permission of the instructor. Equivalency: APSC402, FRST402, LFS 402, LLED402, PHAR402	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ASTU_V 410-101	ASTU_V	410		101	Co-operative Work Placement III	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report. Recommended pre-requisite: ASTU 311. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 410-201	ASTU_V	410		201	Co-operative Work Placement III	W1-2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report. Recommended pre-requisite: ASTU 311. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 411-101	ASTU_V	411		101	Co-operative Work Placement IV	W1	Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report. Recommended pre-requisite: ASTU 410. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 411-201	ASTU_V	411		201	Co-operative Work Placement IV	W1-2	Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report. Recommended pre-requisite: ASTU 410. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 412-A_101	ASTU_V	412	A	A_101	Co-operative Work Placement V	W1	Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report. Recommended pre-requisite: ASTU 411. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASTU_V 412-B_201	ASTU_V	412	B	B_201	Co-operative Work Placement V	W1-2	Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report. Recommended pre-requisite: ASTU 411. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ASTU_V 460-002	ASTU_V	460		002	No Knowledge is Neutral	W2	Capstone seminar in the research, theory and practice of knowledge production, mobilization, and contextualization, including issues of authority, expertise, and positionality. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students in the Sciences Po-UBC Dual Degree.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.

ASTU_V 501-101	ASTU_V	501	101	Co-operative Work Placement 1	W1	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Master's degree students in departments with approved co-op programs. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 501-201	ASTU_V	501	201	Co-operative Work Placement 1	W2	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Master's degree students in departments with approved co-op programs. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 502-101	ASTU_V	502	101	Co-operative Work Placement 2	W1	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Master's degree students in departments with approved co-op programs. Pass/Fail. Recommended pre-requisite: ASTU 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 502-201	ASTU_V	502	201	Co-operative Work Placement 2	W2	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Master's degree students in departments with approved co-op programs. Pass/Fail. Recommended pre-requisite: ASTU 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 503-101	ASTU_V	503	101	Co-operative Work Placement 3	W1	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Master's degree students in departments with approved co-op programs. Pass/Fail. Recommended pre-requisite: ASTU 502. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 503-201	ASTU_V	503	201	Co-operative Work Placement 3	W2	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Master's degree students in departments with approved co-op programs. Pass/Fail. Recommended pre-requisite: ASTU 502. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 505-301	ASTU_V	505	301	Interdisciplinary Research and Professional Practice in Migration Studies	W1-2	Workshop-based seminar in the Graduate Certificate in Migration Studies. Interdisciplinary engagement with migration and mobilities research and learning about non-academic career pathways in the migration and immigrant integration sector. Pass/Fail. Restricted to Graduate Certificate in Migration Studies students.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
ASTU_V 610-101	ASTU_V	610	101	Co-operative Education Work Placement 1	W1	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 610-201	ASTU_V	610	201	Co-operative Education Work Placement 1	W2	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 611-101	ASTU_V	611	101	Co-operative Education Work Placement 2	W1	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Recommended pre-requisite: ASTU 610. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 611-201	ASTU_V	611	201	Co-operative Education Work Placement 2	W2	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Recommended pre-requisite: ASTU 610. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 612-101	ASTU_V	612	101	Co-operative Education Work Placement 3	W1	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Recommended pre-requisite: ASTU 611. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 612-201	ASTU_V	612	201	Co-operative Education Work Placement 3	W2	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Recommended pre-requisite: ASTU 611. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 613-101	ASTU_V	613	101	Co-operative Education Work Placement 4	W1	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Recommend pre-requisite: ASTU 612. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ASTU_V 613-201	ASTU_V	613	201	Co-operative Education Work Placement 4	W2	Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail. Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs. Recommend pre-requisite: ASTU 612. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 113-101	ATSC_V	113	101	Weather Science for Sailing, Flying, and Snow Sports	W1	Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. [3-0-0]	In Person Learning	Arranged	Arranged
ATSC_V 113-201	ATSC_V	113	201	Weather Science for Sailing, Flying, and Snow Sports	W2	Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. [3-0-0]	In Person Learning	Arranged	Arranged
ATSC_V 113-99A	ATSC_V	113	99A	Weather Science for Sailing, Flying, and Snow Sports	W1	Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. [3-0-0]	Hybrid Learning	Arranged	Arranged
ATSC_V 113-99C	ATSC_V	113	99C	Weather Science for Sailing, Flying, and Snow Sports	W2	Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. [3-0-0]	Hybrid Learning	Arranged	Arranged
ATSC_V 201-101	ATSC_V	201	101	Meteorology of Storms	W1	Characteristics and physical processes of thunderstorms, tornadoes, lightning, hail, hurricanes, blizzards, cyclones and other storms. Recommended pre-requisite: completion of first-year science. [3-0-0]	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.

ATSC_V 301-101	ATSC_V	301	101	Atmospheric Radiation and Remote Sensing	W1	Energy transfer at infrared, visible, and microwave wavelengths. Analysis of satellite measurements of the atmosphere and surface. [3-0-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 158. and familiarity with a programming language.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
ATSC_V 301-201	ATSC_V	301	201	Atmospheric Radiation and Remote Sensing	W2	Energy transfer at infrared, visible, and microwave wavelengths. Analysis of satellite measurements of the atmosphere and surface. [3-0-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 158. and familiarity with a programming language.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
ATSC_V 303-201	ATSC_V	303	201	Methods in Atmospheric Science	W2	An introduction to instrumentation used in monitoring the state of the atmosphere; a brief survey of methods of analysis of meteorological data. [2-2-0] Prerequisite: One of EOSC 211, CPSC 103, CPSC 110 and one of ATSC 201, GEOB 200, GEOS 200.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
ATSC_V 303-L2A	ATSC_V	303	L2A	Methods in Atmospheric Science	W2	An introduction to instrumentation used in monitoring the state of the atmosphere; a brief survey of methods of analysis of meteorological data. [2-2-0] Prerequisite: One of EOSC 211, CPSC 103, CPSC 110 and one of ATSC 201, GEOB 200, GEOS 200.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.	
ATSC_V 313-99A	ATSC_V	313	99A	Renewable Energy Meteorology	W1	The meteorology of hydro, wind, and solar power. Atmospheric processes affecting renewable energy on global, regional & local weather scales. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157 and one of APSC 160, CPSC 103, CPSC 110, DSCI 100, EOSC 211.	Hybrid Learning	Arranged	Arranged	
ATSC_V 313-99C	ATSC_V	313	99C	Renewable Energy Meteorology	W2	The meteorology of hydro, wind, and solar power. Atmospheric processes affecting renewable energy on global, regional & local weather scales. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157 and one of APSC 160, CPSC 103, CPSC 110, DSCI 100, EOSC 211.	Hybrid Learning	Arranged	Arranged	
ATSC_V 398-101	ATSC_V	398	101	Co-operative Work Placement I	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Winter Session (Term 2) in third year. Technical report required. Restricted to students admitted to Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 201 and one of GEOB 300, GEOS 300.	In Person Learning	Arranged	Arranged	
ATSC_V 398-201	ATSC_V	398	201	Co-operative Work Placement I	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Winter Session (Term 2) in third year. Technical report required. Restricted to students admitted to Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 201 and one of GEOB 300, GEOS 300.	In Person Learning	Arranged	Arranged	
ATSC_V 399-101	ATSC_V	399	101	Co-operative Work Placement II	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 398.	In Person Learning	Arranged	Arranged	
ATSC_V 399-201	ATSC_V	399	201	Co-operative Work Placement II	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 398.	In Person Learning	Arranged	Arranged	
ATSC_V 405-201	ATSC_V	405	201	Cloud Physics and Chemistry	W2	Cloud thermodynamics, chemistry and microphysics. Computer modelling of droplet growth, convection, and mixing. Application of differential equations to atmospheric problems. [3-0-0] Prerequisite: MATH 215. Familiarity with a programming language is required. Corequisite: One of PHYS 203, CHEM 304.	In Person Learning	Arranged	Arranged	
ATSC_V 413-101	ATSC_V	413	101	Forest-fire Weather and Climate	W1	Synoptic and mesoscale meteorology and weather forecasting applied to wildfires. Effect of weather on fire behaviour, danger, smoke, climate and sustainability at the urban-forest interface. [2-2-0] Prerequisite: One of ATSC 201, GEOS 200.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.	
ATSC_V 448-A_101	ATSC_V	448	A	A_101	Directed Studies	W1	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ATSC_V 448-A_102	ATSC_V	448	A	A_102	Directed Studies	W1	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration.	In Person Learning	Arranged	Arranged
ATSC_V 448-A_103	ATSC_V	448	A	A_103	Directed Studies	W1-2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration.	In Person Learning	Arranged	Arranged
ATSC_V 448-B_201	ATSC_V	448	B	B_201	Directed Studies	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration.	In Person Learning	Arranged	Arranged
ATSC_V 448-B_202	ATSC_V	448	B	B_202	Directed Studies	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
ATSC_V 448-C_001	ATSC_V	448	C	C_001	Directed Studies	W1-2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration.	In Person Learning	Arranged	Arranged
ATSC_V 449-001	ATSC_V	449	001	Honours Project	W1-2	Honours students must submit a graduating report based on a project undertaken with the approval of the Associate Chair of the Atmospheric Science Program.	In Person Learning	Arranged	Arranged	
ATSC_V 498-101	ATSC_V	498	101	Co-operative Work Placement III	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) after fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 399 and one of ATSC 303, GEOB 304, GEOS 304.	In Person Learning	Arranged	Arranged	

ATSC_V 498-201	ATSC_V	498	201	Co-operative Work Placement III	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) after fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 399 and one of ATSC 303, GEOB 304, GEOS 304.	In Person Learning	Arranged	Arranged	
ATSC_V 499-101	ATSC_V	499	101	Co-operative Work Placement IV	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in Winter Session (Term 1) of the fifth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ATSC498]	In Person Learning	Arranged	Arranged	
ATSC_V 499-201	ATSC_V	499	201	Co-operative Work Placement IV	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in Winter Session (Term 1) of the fifth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ATSC498]	In Person Learning	Arranged	Arranged	
ATSC_V 500-101	ATSC_V	500	101	Boundary-Layer Meteorology	W1	Theoretical and empirical analysis of the atmospheric boundary layer with particular emphasis on energy and mass exchanges near the Earth's surface. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ATSC_V 500-201	ATSC_V	500	201	Boundary-Layer Meteorology	W2	Theoretical and empirical analysis of the atmospheric boundary layer with particular emphasis on energy and mass exchanges near the Earth's surface. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ATSC_V 507-201	ATSC_V	507	201	Numerical Weather Prediction	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of a fluid-dynamics course, a numerical-methods course, as well as computer-programming skills.	In Person Learning	Tue Thu	5:00 p.m. - 6:00 p.m.	
ATSC_V 548-A_101	ATSC_V	548	A	A_101	Master's Graduation Essay	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 548-B_001	ATSC_V	548	B	B_001	Master's Graduation Essay	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 595-D_101	ATSC_V	595	D	D_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 595-D_201	ATSC_V	595	D	D_201	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 597-101	ATSC_V	597	101	Co-operative Work Placement I	W1	Restricted to students admitted to the M.Sc. Co-operative Education Option in Atmospheric Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ATSC_V 598-101	ATSC_V	598	101	Co-operative Work Placement II	W1	Restricted to students admitted to the M.Sc. Co-operative Education Option in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 597.	In Person Learning	Arranged	Arranged	
ATSC_V 599-A_005	ATSC_V	599	A	A_005	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 599-A_101	ATSC_V	599	A	A_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 599-A_201	ATSC_V	599	A	A_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 599-B_006	ATSC_V	599	B	B_006	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ATSC_V 699-001	ATSC_V	699	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
ATSC_V 699-101	ATSC_V	699	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
ATSC_V 699-201	ATSC_V	699	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
AUDI_V 402-2W1	AUDI_V	402	2W1	Neuroanatomy for Audiology and Speech-Language Pathology	W2	[3-0] Prerequisite: As indicated on the website at <a href="http://www.audiospeech.ubc.ca">www.audiospeech.ubc.ca</a> or by permission of the instructor.	In Person Learning	Arranged	Arranged	
AUDI_V 402-99C	AUDI_V	402	99C	Neuroanatomy for Audiology and Speech-Language Pathology	W2	[3-0] Prerequisite: As indicated on the website at <a href="http://www.audiospeech.ubc.ca">www.audiospeech.ubc.ca</a> or by permission of the instructor.	Online Learning	Arranged	Arranged	
AUDI_V 402-99D	AUDI_V	402	99D	Neuroanatomy for Audiology and Speech-Language Pathology	W2	[3-0] Prerequisite: As indicated on the website at <a href="http://www.audiospeech.ubc.ca">www.audiospeech.ubc.ca</a> or by permission of the instructor.	In Person Learning	Arranged	Arranged	

AUDI_V 402-99E	AUDI_V	402	99E	Neuroanatomy for Audiology and Speech-Language Pathology	W2	[3-0] Prerequisite: As indicated on the website at www.audiospeech.ubc.ca or by permission of the instructor.	In Person Learning	Arranged	Arranged	
AUDI_V 402-99F	AUDI_V	402	99F	Neuroanatomy for Audiology and Speech-Language Pathology	W2	[3-0] Prerequisite: As indicated on the website at www.audiospeech.ubc.ca or by permission of the instructor.	In Person Learning	Arranged	Arranged	
AUDI_V 403-99D	AUDI_V	403	99D	Introduction to Neurolinguistics	W2		Online Learning	Arranged	Arranged	
AUDI_V 513-A_001	AUDI_V	513	A	A_001	Acoustic and Articulatory Phonetics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 514-A_001	AUDI_V	514	A	A_001	Hearing Science I	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AUDI_V 514-B_001	AUDI_V	514	B	B_001	Hearing Science I	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AUDI_V 515-001	AUDI_V	515		001	Hearing Science II	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AUDI_V 516-A_002	AUDI_V	516	A	A_002	Discourse Analysis	W2	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 516-B_001	AUDI_V	516	B	B_001	Discourse Analysis	W1-2	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 516-C_001	AUDI_V	516	C	C_001	Discourse Analysis	W2	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 518-001	AUDI_V	518		001	Fundamentals of Audiology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 518-002	AUDI_V	518		002	Fundamentals of Audiology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 520-B_001	AUDI_V	520	B	B_001	Phonological Development, Assessment and Intervention	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 522-001	AUDI_V	522		001	Communication Development and Disorders	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 524-001	AUDI_V	524		001	Disorders of Speech Production	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 526-001	AUDI_V	526		001	Acquired Language Disorders	W2	This course is not eligible for Credit/D/Fail grading. [2-2]	In Person Learning	Arranged	Arranged
AUDI_V 527-001	AUDI_V	527		001	Introduction to Dysphagia	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 528-001	AUDI_V	528		001	Aural Rehabilitation I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 529-001	AUDI_V	529		001	Aural Rehabilitation II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 530-A_001	AUDI_V	530	A	A_001	Research Methods	W1	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 530-B_001	AUDI_V	530	B	B_001	Research Methods	W1	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 530-C_002	AUDI_V	530	C	C_002	Research Methods	W1	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 540-001	AUDI_V	540		001	Approaches to Audiology and Speech-Language Pathology for People of First Nations, Mts or Inuit Heritage	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

AUDI_V 540-002	AUDI_V	540		002	Approaches to Audiology and Speech-Language Pathology for People of First Nations, Mtis or Inuit Heritage	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 540-003	AUDI_V	540		003	Approaches to Audiology and Speech-Language Pathology for People of First Nations, Mtis or Inuit Heritage	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 545-003	AUDI_V	545		003	Preparation for Clinical Practice and Externships	W1-2	Ethics, service delivery systems, practice considerations specific to the workplace, and assessment of readiness for clinical learning. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 546-A_001	AUDI_V	546	A	A_001	Advanced Communication Sciences and Disorders	W2	May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 546-A_002	AUDI_V	546	A	A_002	Advanced Communication Sciences and Disorders	W1-2	May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 546-A_003	AUDI_V	546	A	A_003	Advanced Communication Sciences and Disorders	W1-2	May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 546-B_001	AUDI_V	546	B	B_001	Advanced Communication Sciences and Disorders	W1	May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 547-A_001	AUDI_V	547	A	A_001	Directed Reading in Audiology and Speech Sciences	W1	May be taken more than once. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AUDI_V 547-C_003	AUDI_V	547	C	C_003	Directed Reading in Audiology and Speech Sciences	W1	May be taken more than once. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AUDI_V 547-C_006	AUDI_V	547	C	C_006	Directed Reading in Audiology and Speech Sciences	W1-2	May be taken more than once. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
AUDI_V 548-001	AUDI_V	548		001	Research Paper	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 548-002	AUDI_V	548		002	Research Paper	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 548-003	AUDI_V	548		003	Research Paper	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 549-001	AUDI_V	549		001	M.Sc. Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 549-002	AUDI_V	549		002	M.Sc. Thesis	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 549-003	AUDI_V	549		003	M.Sc. Thesis	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 550-A_001	AUDI_V	550	A	A_001	Advanced Topics in Audiology	W1	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 550-B_001	AUDI_V	550	B	B_001	Advanced Topics in Audiology	W1	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 550-D_001	AUDI_V	550	D	D_001	Advanced Topics in Audiology	W1	May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 551-001	AUDI_V	551		001	Hearing and Noise	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 552-001	AUDI_V	552		001	Diagnostic Audiology I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 553-001	AUDI_V	553		001	Diagnostic Audiology II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 555-001	AUDI_V	555		001	Issues in Professional Practice	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

AUDI_V 556-001	AUDI_V	556	001	Amplification I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 557-001	AUDI_V	557	001	Amplification II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 558-001	AUDI_V	558	001	Physiological Measurement of Auditory Function	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 559-001	AUDI_V	559	001	Practicum in Speech-Language Pathology for Audiology Majors	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 562-001	AUDI_V	562	001	Pediatric Audiology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 563-001	AUDI_V	563	001	Cochlear Implants: Audiological Assessment and Management Issues	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 566-C_001	AUDI_V	566	C	C_001	Audiology Practicum II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged
AUDI_V 567-C_001	AUDI_V	567	C	C_001	Audiology Practicum III	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged
AUDI_V 568-C_002	AUDI_V	568	C	C_002	Audiology Practicum IV	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged
AUDI_V 569-001	AUDI_V	569	001	Hearing and Aging	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 570-001	AUDI_V	570	001	Case Studies in Phonological Intervention and Aural (Re)habilitation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 571-001	AUDI_V	571	001	Developmental Language Disorders	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 572-001	AUDI_V	572	001	Cognitive Processing and Acquired Language Disorders	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 575-001	AUDI_V	575	001	Language Development and Disorders in the School Years	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 576-001	AUDI_V	576	001	Topics in Fluency Disorders	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 577-001	AUDI_V	577	001	Advanced Studies in Acquired Speech and Swallowing Disorders	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 579-001	AUDI_V	579	001	Practicum in Audiology for Speech-Language Pathology Majors	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 580-001	AUDI_V	580	001	Speech Perception and Hearing Ability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 581-001	AUDI_V	581	001	Perceptual, Cognitive, and Social-affective Issues in Communication Development, Assessment and Intervention	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 583-001	AUDI_V	583	001	Advanced Speech Science	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 585-001	AUDI_V	585	001	Language Development Across the Lifespan	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 586-001	AUDI_V	586	001	Acquired Language Disorders II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 590-C_001	AUDI_V	590	C	C_001	Speech-Language Pathology Practicum I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged

AUDI_V 594-C_100	AUDI_V	594	C	C_100	Speech-Language Pathology Practicum IV	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 649-001	AUDI_V	649		001	Doctoral Dissertation	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 649-002	AUDI_V	649		002	Doctoral Dissertation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 649-003	AUDI_V	649		003	Doctoral Dissertation	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 660-A_001	AUDI_V	660	A	A_001	Seminar in Hearing Science	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 660-B_002	AUDI_V	660	B	B_002	Seminar in Hearing Science	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 660-C_003	AUDI_V	660	C	C_003	Seminar in Hearing Science	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 670-C_003	AUDI_V	670	C	C_003	Seminar in Developmental Phonetics and Phonology	W1	Examination of current research, roles of theories in understanding the relationship between speech sound production and comprehension/perception. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 685-A_001	AUDI_V	685	A	A_001	Seminar in Language Development	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 685-B_002	AUDI_V	685	B	B_002	Seminar in Language Development	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 685-C_003	AUDI_V	685	C	C_003	Seminar in Language Development	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
AUDI_V 690-C_001	AUDI_V	690	C	C_001	Seminar in Speech Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 500-A_001	BA_V	500	A	A_001	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 3:00 p.m.
BA_V 500-A_ER1	BA_V	500	A	A_ER1	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER2	BA_V	500	A	A_ER2	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER3	BA_V	500	A	A_ER3	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER4	BA_V	500	A	A_ER4	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER5	BA_V	500	A	A_ER5	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER6	BA_V	500	A	A_ER6	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER7	BA_V	500	A	A_ER7	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER8	BA_V	500	A	A_ER8	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-A_ER9	BA_V	500	A	A_ER9	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-B_ER1	BA_V	500	B	B_ER1	MBA Core	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.

BA_V 500-B_ER2	BA_V	500	B	B_ER2	MBA Core		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-B_ER3	BA_V	500	B	B_ER3	MBA Core		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-B_ER4	BA_V	500	B	B_ER4	MBA Core		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-B_ER5	BA_V	500	B	B_ER5	MBA Core		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
BA_V 500-C_ER1	BA_V	500	C	C_ER1	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	12:00 p.m. - 2:00 p.m.
BA_V 500-C_ER2	BA_V	500	C	C_ER2	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-C_ER3	BA_V	500	C	C_ER3	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-C_ER4	BA_V	500	C	C_ER4	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	12:00 p.m. - 2:00 p.m.
BA_V 500-C_ER5	BA_V	500	C	C_ER5	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-D_ER1	BA_V	500	D	D_ER1	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 500-D_ER2	BA_V	500	D	D_ER2	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu	10:00 a.m. - 12:00 p.m.
BA_V 500-D_ER3	BA_V	500	D	D_ER3	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	12:00 p.m. - 2:00 p.m.
BA_V 500-D_ER4	BA_V	500	D	D_ER4	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu	7:00 a.m. - 9:00 a.m.
BA_V 500-D_ER5	BA_V	500	D	D_ER5	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-D_R1	BA_V	500	D	D_R1	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 500-D_R2	BA_V	500	D	D_R2	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
BA_V 500-E_OR1	BA_V	500	E	E_OR1	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
BA_V 500-E_OR2	BA_V	500	E	E_OR2	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 500-E_OR3	BA_V	500	E	E_OR3	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
BA_V 500-E_OR4	BA_V	500	E	E_OR4	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BA_V 500-E_OR5	BA_V	500	E	E_OR5	MBA Core		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
BA_V 501-300	BA_V	501		300	Professional Residency I Leadership and Competitive Strategy		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 5:00 p.m.
BA_V 502-301	BA_V	502		301	Professional Residency II Business Development and Negotiations		W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: BA 501.	In Person Learning	Sun Mon Tue Wed Thu Fri Sat	8:00 a.m. - 6:00 p.m.

BA_V 503-302	BA_V	503	302	Professional Residency III Ethics, Sustainability and Managing Change	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: BA 502.	In Person Learning	Sun Mon Tue Wed Thu Fri Sat	8:00 a.m. - 6:00 p.m.	
BA_V 504-A_001	BA_V	504	A	A_001	Business Strategy Integration: Foundation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 12:00 p.m.
BA_V 504-A_002	BA_V	504	A	A_002	Business Strategy Integration: Foundation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 5:00 p.m.
BA_V 504-B_001	BA_V	504	B	B_001	Business Strategy Integration: Foundation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 3:00 p.m.
BA_V 504-B_002	BA_V	504	B	B_002	Business Strategy Integration: Foundation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 3:00 p.m.
BA_V 505-001	BA_V	505	001	Integrated Foundation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 10:00 a.m.	
BA_V 507-001	BA_V	507	001	Business Strategy Integration: Global	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	7:00 a.m. - 8:00 a.m.	
BA_V 507-002	BA_V	507	002	Business Strategy Integration: Global	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BA_V 507-003	BA_V	507	003	Business Strategy Integration: Global	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BA_V 507-004	BA_V	507	004	Business Strategy Integration: Global	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BA_V 508-001	BA_V	508	001	Business Strategy Integration: Capstone	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 5:00 p.m.	
BA_V 508-002	BA_V	508	002	Business Strategy Integration: Capstone	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	8:00 a.m. - 5:00 p.m.	
BA_V 509-BA1	BA_V	509	BA1	Experiential Learning: Business Analytics Internship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.	
BA_V 509-BA2	BA_V	509	BA2	Experiential Learning: Business Analytics Internship	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.	
BA_V 509-BA3	BA_V	509	BA3	Experiential Learning: Business Analytics Internship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.	
BA_V 509-BA4	BA_V	509	BA4	Experiential Learning: Business Analytics Internship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.	
BA_V 511-DD1	BA_V	511	DD1	Community Business Project	W1	Registration restricted to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 1:00 p.m.	
BA_V 511-DD2	BA_V	511	DD2	Community Business Project	W1	Registration restricted to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 1:00 p.m.	
BA_V 511-MM1	BA_V	511	MM1	Community Business Project	W2	Registration restricted to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 1:00 p.m.	
BA_V 511-RR1	BA_V	511	RR1	Community Business Project	W1	Registration restricted to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BA_V 511-RR2	BA_V	511	RR2	Community Business Project	W1	Registration restricted to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BA_V 515-001	BA_V	515	001	Fundamentals of Analytics and Tech	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.	
BA_V 515-002	BA_V	515	002	Fundamentals of Analytics and Tech	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.	



BA_V 530-M_001	BA_V	530	M	M_001	Study Abroad and Exchange	W1	Restricted to students in one of the following programs: M.B.A., J.D./M.B.A., M.Sc.B., Ph.D. with B.A.D.M. specialization, or M.M. with either ECMS or ECMJ. M.M. ECMS or ECMJ students are limited to a maximum of 12 credits in this course. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 530-M_002	BA_V	530	M	M_002	Study Abroad and Exchange	W2	Restricted to students in one of the following programs: M.B.A., J.D./M.B.A., M.Sc.B., Ph.D. with B.A.D.M. specialization, or M.M. with either ECMS or ECMJ. M.M. ECMS or ECMJ students are limited to a maximum of 12 credits in this course. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 531-A_001	BA_V	531	A	A_001	GNAM: Global Network Course	W1	Online courses offered by schools within the Global Network for Advanced Management (GNAM). Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 531-A_002	BA_V	531	A	A_002	GNAM: Global Network Course	W2	Online courses offered by schools within the Global Network for Advanced Management (GNAM). Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 531-B_001	BA_V	531	B	B_001	GNAM: Global Network Course	W1	Online courses offered by schools within the Global Network for Advanced Management (GNAM). Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 531-B_002	BA_V	531	B	B_002	GNAM: Global Network Course	W2	Online courses offered by schools within the Global Network for Advanced Management (GNAM). Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 531-C_001	BA_V	531	C	C_001	GNAM: Global Network Course	W1	Online courses offered by schools within the Global Network for Advanced Management (GNAM). Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 531-C_002	BA_V	531	C	C_002	GNAM: Global Network Course	W2	Online courses offered by schools within the Global Network for Advanced Management (GNAM). Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 532-A_001	BA_V	532	A	A_001	GNAM: Global Network Week	W1	Intensive on-campus study at schools within the Global Network for Advanced Management (GNAM). Face-to-face course activities and lectures, cross-cultural teams, and final presentations on projects. Students can take more than one Global Network Week during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 532-A_002	BA_V	532	A	A_002	GNAM: Global Network Week	W2	Intensive on-campus study at schools within the Global Network for Advanced Management (GNAM). Face-to-face course activities and lectures, cross-cultural teams, and final presentations on projects. Students can take more than one Global Network Week during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 550-BA1	BA_V	550		BA1	Business Immersion	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 5:00 p.m.
BA_V 550-BA2	BA_V	550		BA2	Business Immersion	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 5:00 p.m.
BA_V 551-DD1	BA_V	551		DD1	Business Capstone	W1	Pass/fail. Registration restricted to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	8:00 a.m. - 5:00 p.m.
BA_V 551-DD2	BA_V	551		DD2	Business Capstone	W1	Pass/fail. Registration restricted to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	8:00 a.m. - 5:00 p.m.
BA_V 560-001	BA_V	560		001	Ethics and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BA_V 560-002	BA_V	560		002	Ethics and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BA_V 560-DD1	BA_V	560		DD1	Ethics and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BA_V 560-DD2	BA_V	560		DD2	Ethics and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 6:00 p.m.
BA_V 560-MM1	BA_V	560		MM1	Ethics and Sustainability	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BA_V 560-MUC	BA_V	560		MUC	Ethics and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BA_V 560-SFT	BA_V	560		SFT	Ethics and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BA_V 562-001	BA_V	562		001	Creativity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 12:00 p.m.

BA_V 562-002	BA_V	562	002	Creativity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	1:00 p.m. - 5:00 p.m.
BA_V 562-MM1	BA_V	562	MM1	Creativity	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed Thu Fri	9:00 a.m. - 3:00 p.m.
BA_V 563-001	BA_V	563	001	Decision Making for Managers	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BA_V 563-MUC	BA_V	563	MUC	Decision Making for Managers	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
BA_V 564-001	BA_V	564	001	Leadership Development	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BA_V 564-002	BA_V	564	002	Leadership Development	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BA_V 564-823	BA_V	564	823	Leadership Development	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 564-MUC	BA_V	564	MUC	Leadership Development	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BA_V 580-B_001	BA_V	580	B_001	Topics in Business Administration	W1	Restricted to students in one of: E.M.B.A., M.B.A., J.D./M.B.A., M.M., or M.B.A./M.A.A. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BA_V 580-B_002	BA_V	580	B_002	Topics in Business Administration	W1	Restricted to students in one of: E.M.B.A., M.B.A., J.D./M.B.A., M.M., or M.B.A./M.A.A. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BA_V 580-B_MUC	BA_V	580	B_MUC	Topics in Business Administration	W1	Restricted to students in one of: E.M.B.A., M.B.A., J.D./M.B.A., M.M., or M.B.A./M.A.A. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
BA_V 580-B_R	BA_V	580	B_R	Topics in Business Administration	W1	Restricted to students in one of: E.M.B.A., M.B.A., J.D./M.B.A., M.M., or M.B.A./M.A.A. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
BAAC_V 501-001	BAAC_V	501	001	Financial Statement Analysis I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun Sat	8:30 a.m. - 4:00 p.m.
BAAC_V 511-001	BAAC_V	511	001	Intermediate Managerial Accounting: Decision Making and Performance Evaluation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAAC_V 511-MUC	BAAC_V	511	MUC	Intermediate Managerial Accounting: Decision Making and Performance Evaluation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAAC_V 550-001	BAAC_V	550	001	Foundations in Accounting	W1	Same as HCEC 502; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAAC_V 550-002	BAAC_V	550	002	Foundations in Accounting	W1	Same as HCEC 502; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAAC_V 550-824	BAAC_V	550	824	Foundations in Accounting	W2	Same as HCEC 502; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAAC_V 550-MM1	BAAC_V	550	MM1	Foundations in Accounting	W1	Same as HCEC 502; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAAC_V 550-MUC	BAAC_V	550	MUC	Foundations in Accounting	W1	Same as HCEC 502; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAAC_V 550-MUCMM	BAAC_V	550	MUCMM	Foundations in Accounting	W1	Same as HCEC 502; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAAC_V 551-001	BAAC_V	551	001	Foundations in Accounting II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAAC_V 551-002	BAAC_V	551	002	Foundations in Accounting II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.

BAAC_V 551-301	BAAC_V	551	301	Foundations in Accounting II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun	8:30 a.m. - 4:00 p.m.
BAAC_V 551-ER1	BAAC_V	551	ER1	Foundations in Accounting II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:00 p.m.
BAAC_V 551-MM1	BAAC_V	551	MM1	Foundations in Accounting II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAAC_V 551-MUC	BAAC_V	551	MUC	Foundations in Accounting II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAAC_V 580-A_001	BAAC_V	580	A_001	Topics in Accounting	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BABS_V 502-BA1	BABS_V	502	BA1	Forecasting and Time Series Prediction	W2	Time series forecasting including common smoothing methods and autocorrelation methods; students will work with publicly available data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BABS_V 502-BA2	BABS_V	502	BA2	Forecasting and Time Series Prediction	W2	Time series forecasting including common smoothing methods and autocorrelation methods; students will work with publicly available data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BABS_V 506-BA1	BABS_V	506	BA1	Analyzing and Modelling Uncertainty	W1	Probability and models that incorporate uncertainty; working with data and extracting information to provide input for predictive and prescriptive analytic models within the Master of Business Analytics program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BABS_V 506-BA2	BABS_V	506	BA2	Analyzing and Modelling Uncertainty	W1	Probability and models that incorporate uncertainty; working with data and extracting information to provide input for predictive and prescriptive analytic models within the Master of Business Analytics program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BABS_V 506-SMB	BABS_V	506	SMB	Analyzing and Modelling Uncertainty	W1	Probability and models that incorporate uncertainty; working with data and extracting information to provide input for predictive and prescriptive analytic models within the Master of Business Analytics program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BABS_V 507-BA1	BABS_V	507	BA1	Descriptive and Predictive Business Analysis	W1	Descriptive data analysis and extraction of useful information; predictive analytics and other clustering techniques; use of appropriate software. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BABS_V 507-BA2	BABS_V	507	BA2	Descriptive and Predictive Business Analysis	W1	Descriptive data analysis and extraction of useful information; predictive analytics and other clustering techniques; use of appropriate software. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BABS_V 507-SMB	BABS_V	507	SMB	Descriptive and Predictive Business Analysis	W1	Descriptive data analysis and extraction of useful information; predictive analytics and other clustering techniques; use of appropriate software. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BABS_V 508-BA1	BABS_V	508	BA1	Advanced Predictive Business Analytics	W2	Application of descriptive analytic skills to predictive analytics; using single/multiple regression, logistic regression and Poisson regression use of Discrete Choice Model. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BABS_V 508-BA2	BABS_V	508	BA2	Advanced Predictive Business Analytics	W2	Application of descriptive analytic skills to predictive analytics; using single/multiple regression, logistic regression and Poisson regression use of Discrete Choice Model. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BABS_V 550-001	BABS_V	550	001	Application of Statistics in Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BABS_V 550-002	BABS_V	550	002	Application of Statistics in Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BABS_V 550-301	BABS_V	550	301	Application of Statistics in Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat (Alternate weeks)	8:30 a.m. - 4:00 p.m.
BABS_V 550-824	BABS_V	550	824	Application of Statistics in Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BABS_V 550-MM1	BABS_V	550	MM1	Application of Statistics in Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BABS_V 550-MMT	BABS_V	550	MMT	Application of Statistics in Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.
BABS_V 550-MUC	BABS_V	550	MUC	Application of Statistics in Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BABS_V 550-SFT	BABS_V	550	SFT	Application of Statistics in Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.

BAEN_V 502-001	BAEN_V	502	001	Growing and Exiting a Venture	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAEN_V 505-001	BAEN_V	505	001	Entrepreneurial Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:30 p.m.
BAEN_V 505-MUC	BAEN_V	505	MUC	Entrepreneurial Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	6:00 p.m. - 9:30 p.m.
BAEN_V 506-001	BAEN_V	506	001	Technology Entrepreneurship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:30 p.m.
BAEN_V 506-002	BAEN_V	506	002	Technology Entrepreneurship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:30 p.m.
BAEN_V 507-001	BAEN_V	507	001	Disruption	W1	Credit will be granted for only one of BAEN 507 and BAEN 508, or BAEN 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
BAEN_V 508-001	BAEN_V	508	001	Applied Methods in Technology Start-ups at CDL	W1	Credit will be granted for only one of BAEN 507 and BAEN 508, or BAEN 509. This course is not eligible for Credit/D/Fail grading. Prerequisite: BAEN 507	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
BAEN_V 509-001	BAEN_V	509	001	Applied Methods in Technology Start-ups at CDL	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAEN_V 540-101	BAEN_V	540	101	Strategy & Innovation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
BAEN_V 549-001	BAEN_V	549	001	Innovation and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAEN_V 549-823	BAEN_V	549	823	Innovation and Sustainability	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAEN_V 549-MUC	BAEN_V	549	MUC	Innovation and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAEN_V 550-001	BAEN_V	550	001	Fundamentals in Entrepreneurship	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAEN_V 550-002	BAEN_V	550	002	Fundamentals in Entrepreneurship	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAEN_V 550-301	BAEN_V	550	301	Fundamentals in Entrepreneurship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun	8:30 a.m. - 4:00 p.m.
BAEN_V 550-ER1	BAEN_V	550	ER1	Fundamentals in Entrepreneurship	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 3:00 p.m.
BAEN_V 550-MM1	BAEN_V	550	MM1	Fundamentals in Entrepreneurship	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAEN_V 550-MUC	BAEN_V	550	MUC	Fundamentals in Entrepreneurship	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 10:00 a.m.
BAEN_V 580-A_001	BAEN_V	580	A	A_001	W2	Topics in Entrepreneurship	In Person Learning	Arranged	Arranged
BAEN_V 580-A_002	BAEN_V	580	A	A_002	W2	Topics in Entrepreneurship	In Person Learning	Arranged	Arranged
BAEN_V 580-C_001	BAEN_V	580	C	C_001	W1	Topics in Entrepreneurship	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAEN_V 580-C_MUC	BAEN_V	580	C	C_MUC	W1	Topics in Entrepreneurship	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
BAEN_V 580-E_823	BAEN_V	580	E	E_823	W2	Topics in Entrepreneurship	In Person Learning	Arranged	Arranged

BAFI_V 500-MM1	BAFI_V	500	MM1	Introductory Finance	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAFI_V 500-MUC	BAFI_V	500	MUC	Introductory Finance	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAFI_V 501-001	BAFI_V	501	001	Banking and Capital Markets	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAFI_V 502-001	BAFI_V	502	001	Corporate Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAFI_V 502-301	BAFI_V	502	301	Corporate Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun	8:30 a.m. - 4:00 p.m.
BAFI_V 502-823	BAFI_V	502	823	Corporate Finance	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAFI_V 503-001	BAFI_V	503	001	Topics in Corporate Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAFI_V 507-001	BAFI_V	507	001	Mergers and Acquisitions	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAFI_V 507-MUC	BAFI_V	507	MUC	Mergers and Acquisitions	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAFI_V 508-BA1	BAFI_V	508	BA1	Data-driven Investments	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAFI_V 508-BA2	BAFI_V	508	BA2	Data-driven Investments	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAFI_V 511-DD1	BAFI_V	511	DD1	Investment Theory and Asset Pricing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAFI_V 511-DD2	BAFI_V	511	DD2	Investment Theory and Asset Pricing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAFI_V 511-MM1	BAFI_V	511	MM1	Investment Theory and Asset Pricing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAFI_V 511-MUC	BAFI_V	511	MUC	Investment Theory and Asset Pricing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAFI_V 513-001	BAFI_V	513	001	Risk Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAFI_V 513-MUC	BAFI_V	513	MUC	Risk Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAFI_V 519-001	BAFI_V	519	001	Topics in Investment Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAFI_V 519-MUC	BAFI_V	519	MUC	Topics in Investment Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAFI_V 523-001	BAFI_V	523	001	FinTech	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAFI_V 523-MUC	BAFI_V	523	MUC	FinTech	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAFI_V 550-001	BAFI_V	550	001	Fundamental Finance	W1	This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAFI_V 550-002	BAFI_V	550	002	Fundamental Finance	W1	Fundamental topics in corporate finance and investments, including: business financing methods, capital budgeting, capital structure, valuation of stocks and bonds, risk and return in investments; roles of financial institutions. Note: For students who do not plan to specialize in finance. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.

BAFI_V 550-300	BAFI_V	550		300	Fundamental Finance	W2	Fundamental topics in corporate finance and investments, including: business financing methods, capital budgeting, capital structure, valuation of stocks and bonds, risk and return in investments; roles of financial institutions. Note: For students who do not plan to specialize in finance. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Arranged	Arranged
BAFI_V 550-824	BAFI_V	550		824	Fundamental Finance	W2	Fundamental topics in corporate finance and investments, including: business financing methods, capital budgeting, capital structure, valuation of stocks and bonds, risk and return in investments; roles of financial institutions. Note: For students who do not plan to specialize in finance. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Arranged	Arranged
BAFI_V 550-MUC	BAFI_V	550		MUC	Fundamental Finance	W1	Fundamental topics in corporate finance and investments, including: business financing methods, capital budgeting, capital structure, valuation of stocks and bonds, risk and return in investments; roles of financial institutions. Note: For students who do not plan to specialize in finance. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAFI_V 580-B_001	BAFI_V	580	B	B_001	Special Topics in Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAFI_V 580-B_MUC	BAFI_V	580	B	B_MUC	Special Topics in Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAFI_V 580-C_001	BAFI_V	580	C	C_001	Special Topics in Finance	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAHR_V 505-MM1	BAHR_V	505		MM1	Leadership	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAHR_V 507-001	BAHR_V	507		001	Two-Party Negotiations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:30 p.m.
BAHR_V 507-002	BAHR_V	507		002	Two-Party Negotiations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	5:00 p.m. - 9:30 p.m.
BAHR_V 507-DD1	BAHR_V	507		DD1	Two-Party Negotiations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAHR_V 507-DD2	BAHR_V	507		DD2	Two-Party Negotiations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 6:00 p.m.
BAHR_V 507-MM1	BAHR_V	507		MM1	Two-Party Negotiations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 6:00 p.m.
BAHR_V 508-001	BAHR_V	508		001	Managing Change	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAHR_V 508-101	BAHR_V	508		101	Managing Change	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
BAHR_V 508-MUC	BAHR_V	508		MUC	Managing Change	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAHR_V 550-001	BAHR_V	550		001	Organizational Behavior	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BAHR_V 550-002	BAHR_V	550		002	Organizational Behavior	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAHR_V 550-MM1	BAHR_V	550		MM1	Organizational Behavior	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAHR_V 550-MUC	BAHR_V	550		MUC	Organizational Behavior	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAHR_V 550-MUCMM	BAHR_V	550		MUCMM	Organizational Behavior	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAHR_V 550-SFT	BAHR_V	550		SFT	Organizational Behavior	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAHR_V 560-300	BAHR_V	560		300	Building High Performance Teams and Organizations	W2	Frameworks and processes for effectively leading high performance organizations. Emphasizes the key factors that can motivate high performance as individuals and teams. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun	8:00 a.m. - 3:30 p.m.
BAHR_V 580-A_001	BAHR_V	580	A	A_001	Topics in Human Resources	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.

BAHR_V 580-B_302	BAHR_V	580	B	B_302	Topics in Human Resources	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat	8:30 a.m. - 4:00 p.m.
BAIT_V 507-BA1	BAIT_V	507		BA1	Data Management for Business Analytics	W1	Databases and data management, data designs for business analytics; data access using structured query language; design interfaces facilitating user-centric access and queries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BAIT_V 507-BA2	BAIT_V	507		BA2	Data Management for Business Analytics	W1	Databases and data management, data designs for business analytics; data access using structured query language; design interfaces facilitating user-centric access and queries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAIT_V 507-MUC	BAIT_V	507		MUC	Data Management for Business Analytics	W1	Databases and data management, data designs for business analytics; data access using structured query language; design interfaces facilitating user-centric access and queries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAIT_V 508-BA1	BAIT_V	508		BA1	Business Analytics Programming	W1	Programming for business analytics; problem definition, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAIT_V 508-BA2	BAIT_V	508		BA2	Business Analytics Programming	W1	Programming for business analytics; problem definition, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BAIT_V 508-MUC	BAIT_V	508		MUC	Business Analytics Programming	W1	Programming for business analytics; problem definition, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAIT_V 508-SMB	BAIT_V	508		SMB	Business Analytics Programming	W1	Programming for business analytics; problem definition, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAIT_V 509-BA1	BAIT_V	509		BA1	Business Applications of Machine Learning	W2	Supervised and unsupervised machine learning algorithms, support vector machines, and ensemble methods for text mining projects. Applications in descriptive and predictive analytics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAIT_V 509-BA2	BAIT_V	509		BA2	Business Applications of Machine Learning	W2	Supervised and unsupervised machine learning algorithms, support vector machines, and ensemble methods for text mining projects. Applications in descriptive and predictive analytics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAIT_V 510-MM1	BAIT_V	510		MM1	Project Management in Delivering Business Solutions	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAIT_V 515-001	BAIT_V	515		001	AI Commercialization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAIT_V 515-MUC	BAIT_V	515		MUC	AI Commercialization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAIT_V 518-001	BAIT_V	518		001	Data Visualization	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAIT_V 518-302	BAIT_V	518		302	Data Visualization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun (Alternate weeks)	8:30 a.m. - 4:00 p.m.
BAIT_V 518-BA1	BAIT_V	518		BA1	Data Visualization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	9:00 a.m. - 5:30 p.m.
BAIT_V 518-BA2	BAIT_V	518		BA2	Data Visualization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	9:00 a.m. - 5:30 p.m.
BAIT_V 518-SMB	BAIT_V	518		SMB	Data Visualization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 5:00 p.m.
BAIT_V 580-A_BA1	BAIT_V	580	A	A_BA1	Topics in Information Technology Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAIT_V 580-A_BA2	BAIT_V	580	A	A_BA2	Topics in Information Technology Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BALA_V 503-DD1	BALA_V	503		DD1	Commercial Law	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BALA_V 503-DD2	BALA_V	503		DD2	Commercial Law	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BALA_V 503-MM1	BALA_V	503		MM1	Commercial Law	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.

BAMA_V 503-MUC	BALA_V	503	MUC	Commercial Law	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAMA_V 503-001	BAMA_V	503	001	New Product Development	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAMA_V 503-MUC	BAMA_V	503	MUC	New Product Development	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAMA_V 504-001	BAMA_V	504	001	Integrated Marketing Communication	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAMA_V 505-001	BAMA_V	505	001	Business Development	W2	Study of business development as a tool for creating long-term value from clients, markets and relationships. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAMA_V 505-DD1	BAMA_V	505	DD1	Business Development	W1	Study of business development as a tool for creating long-term value from clients, markets and relationships. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 6:00 p.m.
BAMA_V 505-DD2	BAMA_V	505	DD2	Business Development	W1	Study of business development as a tool for creating long-term value from clients, markets and relationships. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAMA_V 505-MM1	BAMA_V	505	MM1	Business Development	W2	Study of business development as a tool for creating long-term value from clients, markets and relationships. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAMA_V 506-001	BAMA_V	506	001	Consumer Behaviour	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BAMA_V 506-823	BAMA_V	506	823	Consumer Behaviour	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAMA_V 506-MUC	BAMA_V	506	MUC	Consumer Behaviour	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
BAMA_V 508-001	BAMA_V	508	001	Marketing Research	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAMA_V 508-823	BAMA_V	508	823	Marketing Research	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAMA_V 508-MM1	BAMA_V	508	MM1	Marketing Research	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAMA_V 513-001	BAMA_V	513	001	Digital Marketing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:30 p.m.
BAMA_V 514-001	BAMA_V	514	001	Brand Management	W2	Restricted to students in one of the following programs: M.B.A., J.D./M.B.A., M.B.A./M.A.A.P.S., M.Sc.B., M.M., I.M.B.A.; or a Ph.D. with a BADM specialization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAMA_V 514-823	BAMA_V	514	823	Brand Management	W2	Restricted to students in one of the following programs: M.B.A., J.D./M.B.A., M.B.A./M.A.A.P.S., M.Sc.B., M.M., I.M.B.A.; or a Ph.D. with a BADM specialization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAMA_V 514-MUC	BAMA_V	514	MUC	Brand Management	W2	Restricted to students in one of the following programs: M.B.A., J.D./M.B.A., M.B.A./M.A.A.P.S., M.Sc.B., M.M., I.M.B.A.; or a Ph.D. with a BADM specialization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAMA_V 517-BA1	BAMA_V	517	BA1	Data Driven Marketing	W1	Statistical models of customer behaviour and past marketing actions, and applications to determining elements of the marketing mix. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAMA_V 517-BA2	BAMA_V	517	BA2	Data Driven Marketing	W1	Statistical models of customer behaviour and past marketing actions, and applications to determining elements of the marketing mix. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BAMA_V 517-MUC	BAMA_V	517	MUC	Data Driven Marketing	W1	Statistical models of customer behaviour and past marketing actions, and applications to determining elements of the marketing mix. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAMA_V 519-101	BAMA_V	519	101	Building Brands with Purpose	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAMA_V 519-MUC	BAMA_V	519	MUC	Building Brands with Purpose	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.

BAMA_V 520-001	BAMA_V	520	001	Customer Analytics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAMA_V 520-BA1	BAMA_V	520	BA1	Customer Analytics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAMA_V 520-BA2	BAMA_V	520	BA2	Customer Analytics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAMA_V 520-MUC	BAMA_V	520	MUC	Customer Analytics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAMA_V 550-001	BAMA_V	550	001	Marketing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BAMA_V 550-002	BAMA_V	550	002	Marketing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAMA_V 550-301	BAMA_V	550	301	Marketing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat	8:30 a.m. - 4:00 p.m.
BAMA_V 550-824	BAMA_V	550	824	Marketing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAMA_V 550-MM1	BAMA_V	550	MM1	Marketing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAMA_V 550-MUC	BAMA_V	550	MUC	Marketing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
BAMA_V 580-A_BA1	BAMA_V	580	A	A_BA1	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 5:00 p.m.
BAMA_V 580-A_BA2	BAMA_V	580	A	A_BA2	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 5:00 p.m.
BAMA_V 580-B_001	BAMA_V	580	B	B_001	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAMA_V 580-B_MUC	BAMA_V	580	B	B_MUC	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAMA_V 580-C_001	BAMA_V	580	C	C_001	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAMA_V 580-C_MUC	BAMA_V	580	C	C_MUC	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BAMA_V 580-D_001	BAMA_V	580	D	D_001	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAMS_V 503-BA1	BAMS_V	503	BA1	Simulation Modelling	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	2:00 p.m. - 4:00 p.m.
BAMS_V 503-BA2	BAMS_V	503	BA2	Simulation Modelling	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BAMS_V 506-BA1	BAMS_V	506	BA1	Optimal Decision Making I	W1	This course is not eligible for Credit/D/Fail grading. Models and methods in continuous optimization; linear and nonlinear programming; applications to functional business areas and related fields. Students will learn to formulate an optimization model, solve it, interpret results, and derive insight relevant to intended application. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BAMS_V 506-BA2	BAMS_V	506	BA2	Optimal Decision Making I	W1	This course is not eligible for Credit/D/Fail grading. Models and methods in continuous optimization; linear and nonlinear programming; applications to functional business areas and related fields. Students will learn to formulate an optimization model, solve it, interpret results, and derive insight relevant to intended application. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BAMS_V 506-MUC	BAMS_V	506	MUC	Optimal Decision Making I	W1	This course is not eligible for Credit/D/Fail grading. Models and methods in continuous optimization; linear and nonlinear programming; applications to functional business areas and related fields. Students will learn to formulate an optimization model, solve it, interpret results, and derive insight relevant to intended application. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BAMS_V 506-SMB	BAMS_V	506	SMB	Optimal Decision Making I	W1	This course is not eligible for Credit/D/Fail grading. Models and methods in continuous optimization; linear and nonlinear programming; applications to functional business areas and related fields. Students will learn to formulate an optimization model, solve it, interpret results, and derive insight relevant to intended application. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.

BAMS_V 508-BA1	BAMS_V	508	BA1	Optimal Decision Making II	W1	Models and methods in discrete optimization; emphasis on useful modelling methodologies and their applications. Students will learn to formulate an optimization model, solve it, interpret results, and derive insight relevant to intended application. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAMS_V 508-BA2	BAMS_V	508	BA2	Optimal Decision Making II	W1	Models and methods in discrete optimization; emphasis on useful modelling methodologies and their applications. Students will learn to formulate an optimization model, solve it, interpret results, and derive insight relevant to intended application. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAMS_V 517-BA1	BAMS_V	517	BA1	Decision Analysis Under Uncertainty	W1	Decision making under uncertainty; using decision trees; the value of information; utility and risk preferences; behavioral aspects of decision making under uncertainty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAMS_V 517-BA2	BAMS_V	517	BA2	Decision Analysis Under Uncertainty	W1	Decision making under uncertainty; using decision trees; the value of information; utility and risk preferences; behavioral aspects of decision making under uncertainty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BAMS_V 521-BA1	BAMS_V	521	BA1	Analytics Leadership	W2	Non-technical skills and practices for consulting; project management and problem solving for business consulting projects in analytics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 12:00 p.m.
BAMS_V 521-BA2	BAMS_V	521	BA2	Analytics Leadership	W2	Non-technical skills and practices for consulting; project management and problem solving for business consulting projects in analytics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	2:00 p.m. - 4:00 p.m.
BAMS_V 523-001	BAMS_V	523	001	Managerial Decisions Modelling and Analytics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAPA_V 550-001	BAPA_V	550	001	Managerial Economics I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BAPA_V 550-002	BAPA_V	550	002	Managerial Economics I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAPA_V 550-824	BAPA_V	550	824	Managerial Economics I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BAPA_V 550-MM1	BAPA_V	550	MM1	Managerial Economics I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAPA_V 550-MUC	BAPA_V	550	MUC	Managerial Economics I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
BAPA_V 550-SFT	BAPA_V	550	SFT	Managerial Economics I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BAPA_V 560-300	BAPA_V	560	300	Foundations of Managerial and Business Economics	W2	Framework for analyzing economic and managerial problems, fundamental market forces of supply and demand, and the drivers of firms' production and pricing choices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun (Alternate weeks)	8:30 a.m. - 4:00 p.m.
BAPA_V 580-A_001	BAPA_V	580	A	A_001	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
BASC_V 500-001	BASC_V	500	001	Process Fundamentals	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.
BASC_V 500-301	BASC_V	500	301	Process Fundamentals	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat (Alternate weeks)	8:30 a.m. - 4:00 p.m.
BASC_V 500-823	BASC_V	500	823	Process Fundamentals	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BASC_V 500-BA1	BASC_V	500	BA1	Process Fundamentals	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BASC_V 500-BA2	BASC_V	500	BA2	Process Fundamentals	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BASC_V 523-001	BASC_V	523	001	Supply Chain Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BASC_V 523-302	BASC_V	523	302	Supply Chain Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat (Alternate weeks)	8:30 a.m. - 4:00 p.m.
BASC_V 523-823	BASC_V	523	823	Supply Chain Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

BASC_V 523-BA1	BASC_V	523	BA1	Supply Chain Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
BASC_V 523-BA2	BASC_V	523	BA2	Supply Chain Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BASC_V 523-DD1	BASC_V	523	DD1	Supply Chain Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BASC_V 523-DD2	BASC_V	523	DD2	Supply Chain Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BASC_V 523-MM1	BASC_V	523	MM1	Supply Chain Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:30 p.m.
BASC_V 523-MUC	BASC_V	523	MUC	Supply Chain Management	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BASC_V 524-001	BASC_V	524	001	Supply Chain Analytics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BASC_V 524-MUC	BASC_V	524	MUC	Supply Chain Analytics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BASC_V 550-001	BASC_V	550	001	Operations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BASC_V 550-002	BASC_V	550	002	Operations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BASC_V 550-101	BASC_V	550	101	Operations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	5:00 p.m. - 7:00 p.m.
BASC_V 550-300	BASC_V	550	300	Operations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat (Alternate weeks)	8:30 a.m. - 4:00 p.m.
BASC_V 550-824	BASC_V	550	824	Operations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BASC_V 550-DD1	BASC_V	550	DD1	Operations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BASC_V 550-DD2	BASC_V	550	DD2	Operations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BASC_V 550-MM1	BASC_V	550	MM1	Operations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BASC_V 550-MUC	BASC_V	550	MUC	Operations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BASM_V 501-001	BASM_V	501	001	Business Strategy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BASM_V 501-824	BASM_V	501	824	Business Strategy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BASM_V 502-001	BASM_V	502	001	Corporate Strategy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BASM_V 502-823	BASM_V	502	823	Corporate Strategy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BASM_V 502-MUC	BASM_V	502	MUC	Corporate Strategy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
BASM_V 510-001	BASM_V	510	001	Consulting Simulation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	5:30 p.m. - 9:00 p.m.

BASM_V 514-301	BASM_V	514	301	Strategy in Organizations	W2	Impact of corporate and organizational design on achieving profitability. Introduces the underlying economics of organizational design, including incentive pay, decentralization, transfer pricing, and complementarities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat (Alternate weeks)	8:30 a.m. - 4:00 p.m.
BASM_V 516-001	BASM_V	516	001	Economics and Strategy of Innovation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:30 p.m.
BASM_V 516-MUC	BASM_V	516	MUC	Economics and Strategy of Innovation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	6:00 p.m. - 9:30 p.m.
BASM_V 523-001	BASM_V	523	001	Management Consulting and Corporate Decision Support	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:30 p.m.
BASM_V 523-MUC	BASM_V	523	MUC	Management Consulting and Corporate Decision Support	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	6:00 p.m. - 9:30 p.m.
BASM_V 550-MM1	BASM_V	550	MM1	Strategic Management	W2	Not available to MBA students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
BAUL_V 500-001	BAUL_V	500	001	Real Estate Markets	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
BAUL_V 501-001	BAUL_V	501	001	Real Estate Investment Analysis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BEST_V 200-101	BEST_V	200	101	Foundations in Bioproducts and the Bioeconomy	W1	Introduction to the production, use, and attributes of renewable products and energy derived from biobased materials. Sustainability paradigms related to the bioeconomy; potential environmental and socio-political impacts associated with biobased technologies and transitions to sustainable economies. [3-0-0] Prerequisite: CHEM 121.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BEST_V 201-101	BEST_V	201	101	Plants, Carbon, and Environment	W1	Introduction to plant biology, with special emphasis on growth and development, highlighting the biological mechanisms of radiation energy capture, and water and nutrient acquisition in the production of plant biomass. [3-0-0] Prerequisite: One of BIOL 112, BIOL 121.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BEST_V 202-201	BEST_V	202	201	Alternative Energy Systems	W2	Introduction to safe, clean, and sustainable supplies of energy. Economic, social, environmental, and policy issues raised by current systems of energy use and production are examined. [3-0-0]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BEST_V 203-201	BEST_V	203	201	Ecology of Managed Ecosystems	W2	Provides a foundation in managed ecosystems and community ecology. Includes material on forest ecology and agricultural ecosystems as managed environments. [3-2-0] Prerequisite: BEST 201 and one of BIOL 112, BIOL 121.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
BEST_V 203-L1A	BEST_V	203	L1A	Ecology of Managed Ecosystems	W2	Provides a foundation in managed ecosystems and community ecology. Includes material on forest ecology and agricultural ecosystems as managed environments. [3-2-0] Prerequisite: BEST 201 and one of BIOL 112, BIOL 121.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
BEST_V 300-101	BEST_V	300	101	Biobased Polymers and Bioproducts	W1	Study of occurrence, synthesis, derivatization, physical properties, processing, and application of major bio-based polymers from biomass. Manufacturing processes and uses of biobased products are examined. [3-0-0] Prerequisite: One of CHEM 203, CHEM 233.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
BEST_V 301-101	BEST_V	301	101	Bioenergy	W1	Interdisciplinary approach to bioenergy. The technology of the systems involved, the social and environmental implications of biomass use for energy systems. [3-0-0] Prerequisite: BEST 202.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BEST_V 302-101	BEST_V	302	101	Laboratory in Bioeconomy Technology (I)	W1	Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
BEST_V 302-102	BEST_V	302	102	Laboratory in Bioeconomy Technology (I)	W1	Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.	In Person Learning	Arranged	Arranged
BEST_V 302-L01	BEST_V	302	L01	Laboratory in Bioeconomy Technology (I)	W1	Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BEST_V 302-L02	BEST_V	302	L02	Laboratory in Bioeconomy Technology (I)	W1	Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
BEST_V 303-201	BEST_V	303	201	Applied Biotechnology for Bioproducts	W2	Use of microbiology and enzymology for processing and enhancing value of forest and agro-based bioproducts; saccharification of biomass, fermentation, and product upgrading with biocatalysts. [3-0-0] Prerequisite: BEST 300.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
BEST_V 304-201	BEST_V	304	201	Laboratory in Bioeconomy Technology (II)	W2	Laboratory modules for bioeconomy technologies; bioenergy and bioproducts. [1-3-0] Prerequisite: BEST 300 and BEST 302.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
BEST_V 304-L1A	BEST_V	304	L1A	Laboratory in Bioeconomy Technology (II)	W2	Laboratory modules for bioeconomy technologies; bioenergy and bioproducts. [1-3-0] Prerequisite: BEST 300 and BEST 302.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
BEST_V 304-L2A	BEST_V	304	L2A	Laboratory in Bioeconomy Technology (II)	W2	Laboratory modules for bioeconomy technologies; bioenergy and bioproducts. [1-3-0] Prerequisite: BEST 300 and BEST 302.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.

BEST_V 308-101	BEST_V	308	101	Land Use Management and Planning	W1	Global overview of land use management and planning, with a focus on principles and practice. [3-0-2] Prerequisite: BEST 203.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
BEST_V 308-D1A	BEST_V	308	D1A	Land Use Management and Planning	W1	Global overview of land use management and planning, with a focus on principles and practice. [3-0-2] Prerequisite: BEST 203.	In Person Learning	Arranged	Arranged
BEST_V 308-L01	BEST_V	308	L01	Land Use Management and Planning	W1	Global overview of land use management and planning, with a focus on principles and practice. [3-0-2] Prerequisite: BEST 203.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
BEST_V 310-101	BEST_V	310	101	Co-operative Work Placement I	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 310-201	BEST_V	310	201	Co-operative Work Placement I	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 311-101	BEST_V	311	101	Co-operative Work Placement II	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 311-201	BEST_V	311	201	Co-operative Work Placement II	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 312-101	BEST_V	312	101	Co-operative Work Placement III	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 312-201	BEST_V	312	201	Co-operative Work Placement III	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 400-101	BEST_V	400	101	Biomimicry and Biocomposites	W1	Introduction to principles of self-assembly, hierarchical structures, biocomposites, and unique adaptive structures. [3-0-0] Prerequisite: BEST 300.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BEST_V 401-101	BEST_V	401	101	Carbon and Energy Economics	W1	Understanding key issues for carbon management, protocols for carbon accounting and methodologies for emissions inventories and carbon costing. Economics and business response to climate change are examined. [3-0-0] Prerequisite: One of ECON 101, FRST 101.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BEST_V 402-101	BEST_V	402	101	Industrial Ecology	W1	Concepts in sustainability around technology and material use; relevance of biological ecology to industrial ecology; life cycle analysis: components and applications; and approaches to design. [3-0-2] Prerequisite: BEST 200.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BEST_V 402-D01	BEST_V	402	D01	Industrial Ecology	W1	Concepts in sustainability around technology and material use; relevance of biological ecology to industrial ecology; life cycle analysis: components and applications; and approaches to design. [3-0-2] Prerequisite: BEST 200.	In Person Learning	Wed	1:30 p.m. - 3:30 p.m.
BEST_V 403-201	BEST_V	403	201	Integrated Strategies for Bioproduct Innovation	W2	Project-based course on development of bioeconomy products; demonstration of out-of-box thinking, service learning and teamwork. Restricted to students in the Forest Bioeconomy Sciences and Technology program. [2-3-0] Prerequisite: Fourth year standing in Forest Bioeconomy Sciences and Technology.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
BEST_V 403-L1A	BEST_V	403	L1A	Integrated Strategies for Bioproduct Innovation	W2	Project-based course on development of bioeconomy products; demonstration of out-of-box thinking, service learning and teamwork. Restricted to students in the Forest Bioeconomy Sciences and Technology program. [2-3-0] Prerequisite: Fourth year standing in Forest Bioeconomy Sciences and Technology.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
BEST_V 404-101	BEST_V	404	101	Synthetic Biology for Bioproducts and Bioeconomy	W1	Principles of synthetic biology, DesignBuild-Test-Learn (DBTL) cycle for bioproduct development, enzyme engineering, strain engineering for bioproducts, ethical framework, and social implications [3-0-0] Prerequisite: BEST 302 and BEST 303	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
BEST_V 410-101	BEST_V	410	101	Co-operative Work Placement	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 410-201	BEST_V	410	201	Co-operative Work Placement	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 411-101	BEST_V	411	101	Co-operative Work Placement IV	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 411-201	BEST_V	411	201	Co-operative Work Placement IV	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 412-101	BEST_V	412	101	Co-operative Work Placement V	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BEST_V 412-201	BEST_V	412	201	Co-operative Work Placement V	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students admitted to the Co-operative Education Program in Forest Bioeconomy Sciences and Technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOC_V 202-001	BIOC_V	202	001	Introductory Medical Biochemistry	W1	Introduction to proteins and enzymes, carbohydrate metabolism, and glucose homeostasis. The course emphasis is on human biochemistry and it is designed for students going into health science fields. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-0] Prerequisite: One of CHEM 203, CHEM 223, CHEM 233.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.

BIOC_V 202-002	BIOC_V	202	002	Introductory Medical Biochemistry	W2	Introduction to proteins and enzymes, carbohydrate metabolism, and glucose homeostasis. The course emphasis is on human biochemistry and it is designed for students going into health science fields. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-0] Prerequisite: One of CHEM 203, CHEM 223, CHEM 233.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
BIOC_V 202-003	BIOC_V	202	003	Introductory Medical Biochemistry	W2	Introduction to proteins and enzymes, carbohydrate metabolism, and glucose homeostasis. The course emphasis is on human biochemistry and it is designed for students going into health science fields. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-0] Prerequisite: One of CHEM 203, CHEM 223, CHEM 233.	In Person Learning	Tue Thu	8:30 a.m. - 10:00 a.m.
BIOC_V 203-001	BIOC_V	203	001	Fundamentals of Biochemistry	W2	Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOC_V 203-T01	BIOC_V	203	T01	Fundamentals of Biochemistry	W2	Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
BIOC_V 203-T02	BIOC_V	203	T02	Fundamentals of Biochemistry	W2	Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
BIOC_V 203-T03	BIOC_V	203	T03	Fundamentals of Biochemistry	W2	Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.	In Person Learning	Tue	9:30 a.m. - 10:30 a.m.
BIOC_V 203-T04	BIOC_V	203	T04	Fundamentals of Biochemistry	W2	Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.	In Person Learning	Tue	10:30 a.m. - 11:30 a.m.
BIOC_V 203-T05	BIOC_V	203	T05	Fundamentals of Biochemistry	W2	Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.	In Person Learning	Tue	11:30 a.m. - 12:30 p.m.
BIOC_V 203-T06	BIOC_V	203	T06	Fundamentals of Biochemistry	W2	Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
BIOC_V 301-001	BIOC_V	301	001	Biochemistry Laboratory	W1-2	Techniques by which the chemical and physical properties of fundamental components of the cell are studied. [0-3-1] Corequisite: One of BIOC 302, BIOC 303.	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
BIOC_V 301-DNU_001	BIOC_V	301	DNU_001	Biochemistry Laboratory	W2	Techniques by which the chemical and physical properties of fundamental components of the cell are studied. [0-3-1] Corequisite: One of BIOC 302, BIOC 303.	In Person Learning	Arranged	Arranged
BIOC_V 301-L01	BIOC_V	301	L01	Biochemistry Laboratory	W1-2	Techniques by which the chemical and physical properties of fundamental components of the cell are studied. [0-3-1] Corequisite: One of BIOC 302, BIOC 303.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOC_V 301-L02	BIOC_V	301	L02	Biochemistry Laboratory	W1-2	Techniques by which the chemical and physical properties of fundamental components of the cell are studied. [0-3-1] Corequisite: One of BIOC 302, BIOC 303.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOC_V 301-L03	BIOC_V	301	L03	Biochemistry Laboratory	W1-2	Techniques by which the chemical and physical properties of fundamental components of the cell are studied. [0-3-1] Corequisite: One of BIOC 302, BIOC 303.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOC_V 301-L04	BIOC_V	301	L04	Biochemistry Laboratory	W1-2	Techniques by which the chemical and physical properties of fundamental components of the cell are studied. [0-3-1] Corequisite: One of BIOC 302, BIOC 303.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOC_V 302-102	BIOC_V	302	102	General Biochemistry	W1-2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOC_V 302-202	BIOC_V	302	202	General Biochemistry	W2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
BIOC_V 302-T01	BIOC_V	302	T01	General Biochemistry	W1-2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Arranged	Arranged
BIOC_V 302-T02	BIOC_V	302	T02	General Biochemistry	W2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Arranged	Arranged
BIOC_V 302-T12	BIOC_V	302	T12	General Biochemistry	W1-2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
BIOC_V 302-T14	BIOC_V	302	T14	General Biochemistry	W1-2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.

BIOC_V 302-T53	BIOC_V	302	T53	General Biochemistry	W2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
BIOC_V 302-T57	BIOC_V	302	T57	General Biochemistry	W2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
BIOC_V 302-T58	BIOC_V	302	T58	General Biochemistry	W2	Metabolic reactions of lipids, steroids, amino acids and nucleotides; the biochemistry of replication, transcription and translation. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-1] Prerequisite: One of BIOL 201, BIOC 202, BIOC 203 and one of CHEM 203, CHEM 223, CHEM 233. Equivalency: BIOC 303	In Person Learning	Wed	2:30 p.m. - 3:30 p.m.
BIOC_V 303-001	BIOC_V	303	001	Molecular Biochemistry	W1-2	Structure, function and metabolism of lipids, steroids, amino acids and nucleotides; the biochemistry and molecular biology of replication, transcription, translation and gene regulation. For students in Biochemistry and Honours programs in other life sciences. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-0] Prerequisite: One of BIOC 203, BIOC 202, BIOL 201 and either (a) CHEM 213 or (b) CHEM 233.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BIOC_V 303-DNU_001	BIOC_V	303	DNU_001	Molecular Biochemistry	W2	Structure, function and metabolism of lipids, steroids, amino acids and nucleotides; the biochemistry and molecular biology of replication, transcription, translation and gene regulation. For students in Biochemistry and Honours programs in other life sciences. Credit will be granted for only one of BIOC 302 or BIOC 303. [3-0-0] Prerequisite: One of BIOC 203, BIOC 202, BIOL 201 and either (a) CHEM 213 or (b) CHEM 233.	In Person Learning	Arranged	Arranged
BIOC_V 304-001	BIOC_V	304	001	Contemporary Biochemical Research	W2	Exploration of the breadth and importance of biochemical research to present day challenges in medicine and biotechnology. Detailed experimental research case studies of novel biochemical methods used to address pressing and ongoing biochemical issues. [3-0-0] Prerequisite: CHEM 213. Corequisite: BIOC 303.	In Person Learning	Arranged	Arranged
BIOC_V 306-001	BIOC_V	306	001	Quantitative Methods in Biochemistry	W2	Quantitative and computational methods of biological information transfer. Methods; data analysis approaches and theories involved in bioinformatics; computational biology and high-throughput data. [3-0-0] Prerequisites: a) BIOC 203 and a corequisite of BIOC 303 or b) One of BIOC 202 or BIOL 201 with a grade of 76% or higher and a corequisite of BIOC 302.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOC_V 398-610	BIOC_V	398	610	Internship Work Placement I	W1	Approved and supervised technical work experience in an industrial or academic laboratory for three or four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of academic third year in Biochemistry major or honours program is required.	In Person Learning	Mon	8:00 a.m. - 9:00 a.m.
BIOC_V 398-615	BIOC_V	398	615	Internship Work Placement I	W2	Approved and supervised technical work experience in an industrial or academic laboratory for three or four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of academic third year in Biochemistry major or honours program is required.	In Person Learning	Mon	7:00 a.m. - 7:30 a.m.
BIOC_V 399-610	BIOC_V	399	610	Internship Work Placement II	W1	Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC398	In Person Learning	Mon	8:00 a.m. - 9:00 a.m.
BIOC_V 399-615	BIOC_V	399	615	Internship Work Placement II	W2	Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC398	In Person Learning	Mon	7:00 a.m. - 7:30 a.m.
BIOC_V 402-101	BIOC_V	402	101	Proteins: Structure and Function	W1-2	Structural components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOC 302, BIOC 303, BIOT 380. A minimum standing of 65% is recommended in these courses.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOC_V 402-T01	BIOC_V	402	T01	Proteins: Structure and Function	W1-2	Structural components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOC 302, BIOC 303, BIOT 380. A minimum standing of 65% is recommended in these courses.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
BIOC_V 402-T02	BIOC_V	402	T02	Proteins: Structure and Function	W1-2	Structural components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOC 302, BIOC 303, BIOT 380. A minimum standing of 65% is recommended in these courses.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
BIOC_V 402-T03	BIOC_V	402	T03	Proteins: Structure and Function	W1-2	Structural components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOC 302, BIOC 303, BIOT 380. A minimum standing of 65% is recommended in these courses.	In Person Learning	Arranged	Arranged
BIOC_V 403-201	BIOC_V	403	201	Enzymology	W2	Kinetic analysis, catalytic mechanisms, transition state stabilization and regulation of activity, strategies for active site characterization and case studies of well-documented enzyme systems. Credit will be granted for only one of BIOC 403, CHEM 413 or CHEM 569. [3-0-0] Prerequisite: BIOC402 A minimum standing of 65% is recommended.	In Person Learning	Arranged	Arranged
BIOC_V 404-001	BIOC_V	404	001	Biochemical Methods	W1-2	Theory and application of classical and emerging technologies in biochemical research. Emphasis on using primary literature and oral presentation skills. Restricted to Honours students in Biochemistry or others with permission of the instructor. [1-0; 2-0]	In Person Learning	Mon Fri	12:00 p.m. - 1:00 p.m.
BIOC_V 404-DNU_001	BIOC_V	404	DNU_001	Biochemical Methods	W2	Theory and application of classical and emerging technologies in biochemical research. Emphasis on using primary literature and oral presentation skills. Restricted to Honours students in Biochemistry or others with permission of the instructor. [1-0; 2-0]	In Person Learning	Arranged	Arranged
BIOC_V 410-101	BIOC_V	410	101	Nucleic Acids-Structure and Function	W1	Chemical, physical and biological properties of nucleic acids and their role in replication, transcription, translation and regulation of expression of genetic material. Credit will be granted for only one of BIOC 410 or BIOC 510. [3-0-0] Prerequisite: Either (a) all of BIOC 303, BIOL 335 or (b) BIOT 380. A minimum standing of 65% is recommended in these courses.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BIOC_V 410-T01	BIOC_V	410	T01	Nucleic Acids-Structure and Function	W1	Chemical, physical and biological properties of nucleic acids and their role in replication, transcription, translation and regulation of expression of genetic material. Credit will be granted for only one of BIOC 410 or BIOC 510. [3-0-0] Prerequisite: Either (a) all of BIOC 303, BIOL 335 or (b) BIOT 380. A minimum standing of 65% is recommended in these courses.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.

BIOC_V 410-T02	BIOC_V	410	T02	Nucleic Acids-Structure and Function	W1	Chemical, physical and biological properties of nucleic acids and their role in replication, transcription, translation and regulation of expression of genetic material. Credit will be granted for only one of BIOC 410 or BIOC 510. [3-0-0] Prerequisite: Either (a) all of BIOC 303, BIOL 335 or (b) BIOT 380. A minimum standing of 65% is recommended in these courses.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.	
BIOC_V 420-101	BIOC_V	420	101	Advanced Biochemical Techniques	W1	Multi-week experiments in areas of contemporary biochemistry research using classical and modern techniques. Emphasis on experimental design, technique, critical analysis of data, and scientific communication skills. Restricted to Honours students in Biochemistry and others with permission of the instructor. [0-6-0] Corequisite: One of BIOC 404, FSCT 480.	In Person Learning	Tue	8:30 a.m. - 5:30 p.m.	
BIOC_V 420-102	BIOC_V	420	102	Advanced Biochemical Techniques	W1	Multi-week experiments in areas of contemporary biochemistry research using classical and modern techniques. Emphasis on experimental design, technique, critical analysis of data, and scientific communication skills. Restricted to Honours students in Biochemistry and others with permission of the instructor. [0-6-0] Corequisite: One of BIOC 404, FSCT 480.	In Person Learning	Thu	8:30 a.m. - 5:30 p.m.	
BIOC_V 420-103	BIOC_V	420	103	Advanced Biochemical Techniques	W1	Multi-week experiments in areas of contemporary biochemistry research using classical and modern techniques. Emphasis on experimental design, technique, critical analysis of data, and scientific communication skills. Restricted to Honours students in Biochemistry and others with permission of the instructor. [0-6-0] Corequisite: One of BIOC 404, FSCT 480.	In Person Learning	Arranged	Arranged	
BIOC_V 421-201	BIOC_V	421	201	Recombinant DNA Techniques	W2	Multi-week experiments involving contemporary nucleic acid research, cloning and recombinant protein engineering. Emphasis is on experimental design, critical analysis of data and scientific communication skills. Restricted to Major students in Biochemistry. [0-6-0] Prerequisite: All of BIOC 301, BIOC 410.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.	
BIOC_V 421-202	BIOC_V	421	202	Recombinant DNA Techniques	W2	Multi-week experiments involving contemporary nucleic acid research, cloning and recombinant protein engineering. Emphasis is on experimental design, critical analysis of data and scientific communication skills. Restricted to Major students in Biochemistry. [0-6-0] Prerequisite: All of BIOC 301, BIOC 410.	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.	
BIOC_V 421-203	BIOC_V	421	203	Recombinant DNA Techniques	W2	Multi-week experiments involving contemporary nucleic acid research, cloning and recombinant protein engineering. Emphasis is on experimental design, critical analysis of data and scientific communication skills. Restricted to Major students in Biochemistry. [0-6-0] Prerequisite: All of BIOC 301, BIOC 410.	In Person Learning	Thu	8:30 a.m. - 12:30 p.m.	
BIOC_V 430-A_201	BIOC_V	430	A	A_201	Advanced Topics in Protein Biochemistry	W2	Advanced topics in protein structure and function. [3-0-0] Prerequisites: BIOC 402	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOC_V 440-001	BIOC_V	440	001	Concepts in Molecular Biology	W2	Developing areas of molecular biology, focusing on experimental design and data analysis. Signal transduction, the use of model eukaryotes, and the regulation of gene expression. [3-0-0] Prerequisite: One of BIOC 303, BIOT 380 and all of BIOC 402, BIOC 410.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
BIOC_V 448-A_101	BIOC_V	448	A	A_101	Directed Studies in Biochemistry	W1	A library (3 credits) or a laboratory project with written report (3 or 6 credits) allowing a student to undertake an investigation on a specific topic as agreed upon by the faculty and student. Prerequisite: Permission of the Department Head is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 448-A_201	BIOC_V	448	A	A_201	Directed Studies in Biochemistry	W2	A library (3 credits) or a laboratory project with written report (3 or 6 credits) allowing a student to undertake an investigation on a specific topic as agreed upon by the faculty and student. Prerequisite: Permission of the Department Head is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 448-B_001	BIOC_V	448	B	B_001	Directed Studies in Biochemistry	W1-2	A library (3 credits) or a laboratory project with written report (3 or 6 credits) allowing a student to undertake an investigation on a specific topic as agreed upon by the faculty and student. Prerequisite: Permission of the Department Head is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Sun	9:30 p.m. - 10:00 p.m.
BIOC_V 449-A_101	BIOC_V	449	A	A_101	Honours Thesis	W1	A research problem under the direction of a faculty member. Restricted to Honours students. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 449-B_201	BIOC_V	449	B	B_201	Honours Thesis	W2	A research problem under the direction of a faculty member. Restricted to Honours students. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 449-C_001	BIOC_V	449	C	C_001	Honours Thesis	W1-2	A research problem under the direction of a faculty member. Restricted to Honours students. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 450-001	BIOC_V	450	001	Membrane Biochemistry	W2	Biochemistry of membranes and membrane proteins, membrane fusion, electrical signaling, and the involvement of membrane proteins in disease and drug development. [3-0-0] Prerequisite: One of BIOC 303, BIOT 380 and all of BIOC 402, BIOC 410.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
BIOC_V 460-001	BIOC_V	460	001	Advanced Techniques in Biochemistry	W2	Theoretical basis and practical applications of a selection of advanced techniques currently used in biochemical research. Topics will vary. [3-0-0] Prerequisite: One of BIOC 303, BIOT 380 and all of BIOC 402, BIOC 410.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
BIOC_V 470-001	BIOC_V	470	001	Biochemistry & Society: Current Issues	W2	Biochemical basis of select global challenges. Critical evaluation of primary literature to form evidence-based opinions and communicating biochemistry as it relates to several controversial societal issues. [3-0-1] Prerequisite: One of BIOC 302, BIOC 303.	In Person Learning	Mon Fri	3:00 p.m. - 5:00 p.m.	
BIOC_V 498-610	BIOC_V	498	610	Internship Work Placement III	W1	Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC399	In Person Learning	Arranged	Arranged	
BIOC_V 498-615	BIOC_V	498	615	Internship Work Placement III	W2	Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC399	In Person Learning	Arranged	Arranged	
BIOC_V 499-610	BIOC_V	499	610	Internship Work Placement IV	W1	Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC498	In Person Learning	Arranged	Arranged	

BIOC_V 499-615	BIOC_V	499		615	Internship Work Placement IV	W2	Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC498	In Person Learning	Arranged	Arranged
BIOC_V 501-A_102	BIOC_V	501	A	A_102	Advanced Biochemistry Laboratory	W1	Practical applications of advanced biochemical techniques. Admission is limited and is by permission of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 501-C_002	BIOC_V	501	C	C_002	Advanced Biochemistry Laboratory	W1	Practical applications of advanced biochemical techniques. Admission is limited and is by permission of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 510-001	BIOC_V	510		001	Nucleic Acids: Structure and Function	W1	Structure and function of nucleic acids and their role in replication, transcription, translation and expression of genetic information. Credit will be granted for only one of BIOC 410 or BIOC 510. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Arranged	Arranged
BIOC_V 530-001	BIOC_V	530		001	Seminar in Biochemistry	W1-2	Attendance is required of all graduate students in Biochemistry. Normally students will make a presentation once per year on a topic approved by their research advisor or committee or on the results of their research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
BIOC_V 530-101	BIOC_V	530		101	Seminar in Biochemistry	W1	Attendance is required of all graduate students in Biochemistry. Normally students will make a presentation once per year on a topic approved by their research advisor or committee or on the results of their research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
BIOC_V 530-201	BIOC_V	530		201	Seminar in Biochemistry	W2	Attendance is required of all graduate students in Biochemistry. Normally students will make a presentation once per year on a topic approved by their research advisor or committee or on the results of their research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
BIOC_V 548-A_004	BIOC_V	548	A	A_004	Directed Studies	W2	In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 548-B_001	BIOC_V	548	B	B_001	Directed Studies	W1-2	In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 548-B_101	BIOC_V	548	B	B_101	Directed Studies	W1	In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 548-B_202	BIOC_V	548	B	B_202	Directed Studies	W2	In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 548-C_002	BIOC_V	548	C	C_002	Directed Studies	W1-2	In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 548-D_003	BIOC_V	548	D	D_003	Directed Studies	W1-2	In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 548-D_202	BIOC_V	548	D	D_202	Directed Studies	W2	In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOC_V 549-001	BIOC_V	549		001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOC_V 549-101	BIOC_V	549		101	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOC_V 549-201	BIOC_V	549		201	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOC_V 551-001	BIOC_V	551		001	Advanced Topics in Biochemistry and Molecular Biology	W1-2	Discussions based on topics in the current literature. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
BIOC_V 556-001	BIOC_V	556		001	Biochemical Aspects of Cellular Regulation	W1	Mechanisms involved in the responses of cells to adrenergic, steroid and peptide hormones and growth factors. Recent advances in approaches and regulation of the concentration and specific activity of key enzymes, transport systems and structural proteins. Given in alternate years. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Arranged	Arranged
BIOC_V 557-001	BIOC_V	557		001	Advanced Topics in Biochemistry	W1	Advances in biochemical approaches. Topics vary. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.

BIOC_V 558-001	BIOC_V	558	001	Advanced Topics in Protein Chemistry I	W1	Contemporary theoretical and experimental investigation of protein structure-function relationships. Topics will vary. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
BIOC_V 559-001	BIOC_V	559	001	Advanced Topics in Protein Chemistry II	W1	Contemporary theoretical and experimental investigation of protein structure-function relationships. Topics will vary. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
BIOC_V 560-B_001	BIOC_V	560	B	B_001	Computational Approaches in Biochemistry	W2	Computational approaches to study protein and nucleic acids. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
BIOC_V 649-001	BIOC_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
BIOC_V 649-101	BIOC_V	649	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
BIOC_V 649-201	BIOC_V	649	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
BIOF_V 501-A_001	BIOF_V	501	A	A_001	Special Topics in Bioinformatics	W1	This course is not eligible for Credit/D/Fail grading. Develops the student's ability to exchange ideas in small groups focused on real but simplified problems in bioinformatics. Problems are carefully selected to cover all aspects of Bioinformatics research. Required of students in the Bioinformatics graduate program. Students not registered in the Bioinformatics graduate program must get permission to register in this course. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
BIOF_V 520-002	BIOF_V	520	002	Problem-Based Learning In Bioinformatics	W2		In Person Learning	Mon Wed	3:00 p.m. - 5:00 p.m.	
BIOF_V 540-A_201	BIOF_V	540	A	A_201	Statistical Methods for High Dimensional Biology	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: STAT540, GSATS40	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
BIOF_V 540-A_S2B	BIOF_V	540	A	A_S2B	Statistical Methods for High Dimensional Biology	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: STAT540, GSATS40	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
BIOF_V 548-A_001	BIOF_V	548	A	A_001	Directed Studies	W1	Advanced study under the direction of a faculty member composed of laboratory sessions and directed readings related to selected areas of bioinformatics. Students must get permission to register in this course. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOF_V 548-A_002	BIOF_V	548	A	A_002	Directed Studies	W2	Advanced study under the direction of a faculty member composed of laboratory sessions and directed readings related to selected areas of bioinformatics. Students must get permission to register in this course. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOF_V 599-001	BIOF_V	599	001	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BIOF_V 599-002	BIOF_V	599	002	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BIOF_V 599-003	BIOF_V	599	003	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BIOF_V 699-001	BIOF_V	699	001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
BIOF_V 699-002	BIOF_V	699	002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
BIOF_V 699-003	BIOF_V	699	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
BIOL_V 111-101	BIOL_V	111	101	Introduction to Modern Biology	W1	Concepts fundamental to biological issues, such as the genetic basis of biological variation, evolution, infectious diseases, causes of cancer, population growth, and human effects on ecosystems. Not open to students who have credit for Biology 12 (including AP, IB). [3-0-0]	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.	
BIOL_V 111-201	BIOL_V	111	201	Introduction to Modern Biology	W2	Concepts fundamental to biological issues, such as the genetic basis of biological variation, evolution, infectious diseases, causes of cancer, population growth, and human effects on ecosystems. Not open to students who have credit for Biology 12 (including AP, IB). [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
BIOL_V 112-101	BIOL_V	112	101	Biology of the Cell	W1	The principles of cellular and molecular biology using bacterial and eukaryotic examples. [3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	





BIOL_V 112-T76	BIOL_V	112	T76	Biology of the Cell	W2	The principles of cellular and molecular biology using bacterial and eukaryotic examples. [3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
BIOL_V 112-T77	BIOL_V	112	T77	Biology of the Cell	W2	The principles of cellular and molecular biology using bacterial and eukaryotic examples. [3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 121-121	BIOL_V	121	121	Genetics, Evolution and Ecology	W1	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
BIOL_V 121-122	BIOL_V	121	122	Genetics, Evolution and Ecology	W1	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 121-123	BIOL_V	121	123	Genetics, Evolution and Ecology	W1	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BIOL_V 121-124	BIOL_V	121	124	Genetics, Evolution and Ecology	W1	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BIOL_V 121-125	BIOL_V	121	125	Genetics, Evolution and Ecology	W1	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 121-221	BIOL_V	121	221	Genetics, Evolution and Ecology	W2	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
BIOL_V 121-222	BIOL_V	121	222	Genetics, Evolution and Ecology	W2	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
BIOL_V 121-223	BIOL_V	121	223	Genetics, Evolution and Ecology	W2	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
BIOL_V 121-224	BIOL_V	121	224	Genetics, Evolution and Ecology	W2	Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 155-001	BIOL_V	155	001	Human Biology: Physiology and Introductory Anatomy	W1-2	The principles of biology with particular reference to the human body (anatomy and physiology). (physiology and introductory anatomy). Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 155-002	BIOL_V	155	002	Human Biology: Physiology and Introductory Anatomy	W1-2	The principles of biology with particular reference to the human body (anatomy and physiology). (physiology and introductory anatomy). Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BIOL_V 155-T01	BIOL_V	155	T01	Human Biology: Physiology and Introductory Anatomy	W1-2	The principles of biology with particular reference to the human body (anatomy and physiology). (physiology and introductory anatomy). Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
BIOL_V 155-T02	BIOL_V	155	T02	Human Biology: Physiology and Introductory Anatomy	W1-2	The principles of biology with particular reference to the human body (anatomy and physiology). (physiology and introductory anatomy). Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
BIOL_V 155-T03	BIOL_V	155	T03	Human Biology: Physiology and Introductory Anatomy	W1-2	The principles of biology with particular reference to the human body (anatomy and physiology). (physiology and introductory anatomy). Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
BIOL_V 155-T04	BIOL_V	155	T04	Human Biology: Physiology and Introductory Anatomy	W1-2	The principles of biology with particular reference to the human body (anatomy and physiology). (physiology and introductory anatomy). Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
BIOL_V 155-T05	BIOL_V	155	T05	Human Biology: Physiology and Introductory Anatomy	W1-2	The principles of biology with particular reference to the human body (anatomy and physiology). (physiology and introductory anatomy). Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, BIOL 12, BIOL 111.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.

















BIOL_V 201-T22	BIOL_V	201	T22	Introduction to Biochemistry	W2	Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) Credit will be granted for only one of BIOL 201, BIOC 202, or BIOC 203. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 260.; or BIOL 200 and a corequisite of CHEM 213; or a corequisite of either CHEM 313 or CHEM 330.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
BIOL_V 201-T23	BIOL_V	201	T23	Introduction to Biochemistry	W2	Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) Credit will be granted for only one of BIOL 201, BIOC 202, or BIOC 203. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 260.; or BIOL 200 and a corequisite of CHEM 213; or a corequisite of either CHEM 313 or CHEM 330.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
BIOL_V 201-T24	BIOL_V	201	T24	Introduction to Biochemistry	W2	Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) Credit will be granted for only one of BIOL 201, BIOC 202, or BIOC 203. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 260.; or BIOL 200 and a corequisite of CHEM 213; or a corequisite of either CHEM 313 or CHEM 330.	In Person Learning	Thu	3:00 p.m. - 4:00 p.m.
BIOL_V 203-101	BIOL_V	203	101	Eukaryotic Microbiology	W1	Introduction to the origin and diversity of protists (protozoa and algae) at both cellular and genomic levels, including the role of endosymbiosis in evolution. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 203-L01	BIOL_V	203	L01	Eukaryotic Microbiology	W1	Introduction to the origin and diversity of protists (protozoa and algae) at both cellular and genomic levels, including the role of endosymbiosis in evolution. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 203-L02	BIOL_V	203	L02	Eukaryotic Microbiology	W1	Introduction to the origin and diversity of protists (protozoa and algae) at both cellular and genomic levels, including the role of endosymbiosis in evolution. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 203-L03	BIOL_V	203	L03	Eukaryotic Microbiology	W1	Introduction to the origin and diversity of protists (protozoa and algae) at both cellular and genomic levels, including the role of endosymbiosis in evolution. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 203-L04	BIOL_V	203	L04	Eukaryotic Microbiology	W1	Introduction to the origin and diversity of protists (protozoa and algae) at both cellular and genomic levels, including the role of endosymbiosis in evolution. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
BIOL_V 204-201	BIOL_V	204	201	Vertebrate Structure and Function	W2	Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 204-L11	BIOL_V	204	L11	Vertebrate Structure and Function	W2	Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 204-L13	BIOL_V	204	L13	Vertebrate Structure and Function	W2	Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 204-L15	BIOL_V	204	L15	Vertebrate Structure and Function	W2	Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 204-L17	BIOL_V	204	L17	Vertebrate Structure and Function	W2	Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 204-L21	BIOL_V	204	L21	Vertebrate Structure and Function	W2	Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
BIOL_V 204-L23	BIOL_V	204	L23	Vertebrate Structure and Function	W2	Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
BIOL_V 205-101	BIOL_V	205	101	Comparative Invertebrate Zoology	W1	An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BIOL_V 205-L11	BIOL_V	205	L11	Comparative Invertebrate Zoology	W1	An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 205-L13	BIOL_V	205	L13	Comparative Invertebrate Zoology	W1	An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 205-L15	BIOL_V	205	L15	Comparative Invertebrate Zoology	W1	An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 205-L17	BIOL_V	205	L17	Comparative Invertebrate Zoology	W1	An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 205-L21	BIOL_V	205	L21	Comparative Invertebrate Zoology	W1	An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.

BIOL_V 205-L23	BIOL_V	205	L23	Comparative Invertebrate Zoology	W1	An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
BIOL_V 209-101	BIOL_V	209	101	Biodiversity of Algae, Fungi and Bryophytes	W1	Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 209-L11	BIOL_V	209	L11	Biodiversity of Algae, Fungi and Bryophytes	W1	Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
BIOL_V 209-L12	BIOL_V	209	L12	Biodiversity of Algae, Fungi and Bryophytes	W1	Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
BIOL_V 209-L13	BIOL_V	209	L13	Biodiversity of Algae, Fungi and Bryophytes	W1	Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 209-L14	BIOL_V	209	L14	Biodiversity of Algae, Fungi and Bryophytes	W1	Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 209-L17	BIOL_V	209	L17	Biodiversity of Algae, Fungi and Bryophytes	W1	Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 209-L18	BIOL_V	209	L18	Biodiversity of Algae, Fungi and Bryophytes	W1	Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 210-201	BIOL_V	210	201	Vascular Plants	W2	A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. or 8 transfer credits of first-year biology. Equivalency: APBI 210	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 210-L20	BIOL_V	210	L20	Vascular Plants	W2	A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. or 8 transfer credits of first-year biology. Equivalency: APBI 210	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
BIOL_V 210-L21	BIOL_V	210	L21	Vascular Plants	W2	A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. or 8 transfer credits of first-year biology. Equivalency: APBI 210	In Person Learning	Arranged	Arranged
BIOL_V 210-L23	BIOL_V	210	L23	Vascular Plants	W2	A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. or 8 transfer credits of first-year biology. Equivalency: APBI 210	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 210-L27	BIOL_V	210	L27	Vascular Plants	W2	A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. or 8 transfer credits of first-year biology. Equivalency: APBI 210	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 210-L28	BIOL_V	210	L28	Vascular Plants	W2	A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. or 8 transfer credits of first-year biology. Equivalency: APBI 210	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 210-L31	BIOL_V	210	L31	Vascular Plants	W2	A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function and ecology. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. or 8 transfer credits of first-year biology. Equivalency: APBI 210	In Person Learning	Fri	8:00 a.m. - 11:00 a.m.
BIOL_V 230-101	BIOL_V	230	101	Fundamentals of Ecology	W1	Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 230-201	BIOL_V	230	201	Fundamentals of Ecology	W2	Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 230-202	BIOL_V	230	202	Fundamentals of Ecology	W2	Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 230-L01	BIOL_V	230	L01	Fundamentals of Ecology	W1	Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 230-L02	BIOL_V	230	L02	Fundamentals of Ecology	W1	Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.















BIOL_V 301-201	BIOL_V	301	201	Biomathematics	W2	Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Recommended co-requisites: one of BIOL 300, STAT 200. [3-0-2]	In Person Learning	Arranged	Arranged
BIOL_V 301-T01	BIOL_V	301	T01	Biomathematics	W1	Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Recommended co-requisites: one of BIOL 300, STAT 200. [3-0-2]	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
BIOL_V 301-T02	BIOL_V	301	T02	Biomathematics	W1	Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Recommended co-requisites: one of BIOL 300, STAT 200. [3-0-2]	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
BIOL_V 301-T40	BIOL_V	301	T40	Biomathematics	W2	Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Recommended co-requisites: one of BIOL 300, STAT 200. [3-0-2]	In Person Learning	Arranged	Arranged
BIOL_V 301-T41	BIOL_V	301	T41	Biomathematics	W2	Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Recommended co-requisites: one of BIOL 300, STAT 200. [3-0-2]	In Person Learning	Arranged	Arranged
BIOL_V 302-201	BIOL_V	302	201	Biodiversity, Human & Planetary Health	W2	Effects of biodiversity on human health, from human microbiome to ecosystem. Strategies for protecting, restoring and managing for biodiversity, human and planetary health. [3-0-1] Prerequisite: One of BIOL 111, BIOL 121, GEOS 207, SCIE 001 and third-year class standing.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 302-T01	BIOL_V	302	T01	Biodiversity, Human & Planetary Health	W2	Effects of biodiversity on human health, from human microbiome to ecosystem. Strategies for protecting, restoring and managing for biodiversity, human and planetary health. [3-0-1] Prerequisite: One of BIOL 111, BIOL 121, GEOS 207, SCIE 001 and third-year class standing.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
BIOL_V 302-T02	BIOL_V	302	T02	Biodiversity, Human & Planetary Health	W2	Effects of biodiversity on human health, from human microbiome to ecosystem. Strategies for protecting, restoring and managing for biodiversity, human and planetary health. [3-0-1] Prerequisite: One of BIOL 111, BIOL 121, GEOS 207, SCIE 001 and third-year class standing.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
BIOL_V 303-201	BIOL_V	303	201	Green Planet: Biology and History of Plants that Changed Civilizations	W2	Biological, cultural, and societal significance of staple crops selected as foods, medicines or raw materials by different societies, and their pivotal role in the rise and fall of past and present civilizations. [3-0-1] Prerequisite: A minimum of 3rd year standing.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 306-101	BIOL_V	306	101	Advanced Ecology	W1	Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*0] Prerequisite: BIOL 230.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
BIOL_V 306-L01	BIOL_V	306	L01	Advanced Ecology	W1	Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*0] Prerequisite: BIOL 230.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
BIOL_V 306-L02	BIOL_V	306	L02	Advanced Ecology	W1	Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*0] Prerequisite: BIOL 230.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
BIOL_V 306-L03	BIOL_V	306	L03	Advanced Ecology	W1	Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*0] Prerequisite: BIOL 230.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 306-L04	BIOL_V	306	L04	Advanced Ecology	W1	Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*0] Prerequisite: BIOL 230.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 306-L05	BIOL_V	306	L05	Advanced Ecology	W1	Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-3*0] Prerequisite: BIOL 230.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 310-201	BIOL_V	310	201	Introduction to Animal Behaviour	W2	Animal behavior from an ecological and evolutionary perspective; the methods used to study behaviour and test its adaptive significance. [3-0-2] Prerequisite: BIOL 121. Third-year standing is required.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 310-L01	BIOL_V	310	L01	Introduction to Animal Behaviour	W2	Animal behavior from an ecological and evolutionary perspective; the methods used to study behaviour and test its adaptive significance. [3-0-2] Prerequisite: BIOL 121. Third-year standing is required.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
BIOL_V 310-L02	BIOL_V	310	L02	Introduction to Animal Behaviour	W2	Animal behavior from an ecological and evolutionary perspective; the methods used to study behaviour and test its adaptive significance. [3-0-2] Prerequisite: BIOL 121. Third-year standing is required.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
BIOL_V 310-L03	BIOL_V	310	L03	Introduction to Animal Behaviour	W2	Animal behavior from an ecological and evolutionary perspective; the methods used to study behaviour and test its adaptive significance. [3-0-2] Prerequisite: BIOL 121. Third-year standing is required.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
BIOL_V 314-201	BIOL_V	314	201	Elements of Biodiversity	W2	The units of biodiversity, from genes to ecosystems, how they are structured in space, and their importance to human well-being and ecosystem health. [3-0-0] Prerequisite: One of APBI 260, BIOL 230, FRST 201, GEOB 207, GEOS 207. Equivalency: CONS 314	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

BIOL_V 320-201	BIOL_V	320	201	Survey of Algae	W2	A survey of the algae, considering their morphology, life history, classification, and ecology. [3-3-0] Prerequisite: BIOL 121	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 320-L21	BIOL_V	320	L21	Survey of Algae	W2	A survey of the algae, considering their morphology, life history, classification, and ecology. [3-3-0] Prerequisite: BIOL 121	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
BIOL_V 320-L22	BIOL_V	320	L22	Survey of Algae	W2	A survey of the algae, considering their morphology, life history, classification, and ecology. [3-3-0] Prerequisite: BIOL 121	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
BIOL_V 320-L23	BIOL_V	320	L23	Survey of Algae	W2	A survey of the algae, considering their morphology, life history, classification, and ecology. [3-3-0] Prerequisite: BIOL 121	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 320-L24	BIOL_V	320	L24	Survey of Algae	W2	A survey of the algae, considering their morphology, life history, classification, and ecology. [3-3-0] Prerequisite: BIOL 121	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 321-201	BIOL_V	321	201	Morphology and Evolution of Bryophytes	W2	A study of evolution, taxonomy and morphology of mosses, liverworts and hornworts with emphasis on living plants in their environment. [2-4-0] Prerequisite: BIOL 121	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
BIOL_V 321-L01	BIOL_V	321	L01	Morphology and Evolution of Bryophytes	W2	A study of evolution, taxonomy and morphology of mosses, liverworts and hornworts with emphasis on living plants in their environment. [2-4-0] Prerequisite: BIOL 121	In Person Learning	Mon Wed	3:00 p.m. - 5:00 p.m.
BIOL_V 323-101	BIOL_V	323	101	Structure and Reproduction of Fungi	W1	The evolutionary diversity of the fungi as shown by their morphology and reproductive biology. [2-3-0] Prerequisite: BIOL 121	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
BIOL_V 323-L11	BIOL_V	323	L11	Structure and Reproduction of Fungi	W1	The evolutionary diversity of the fungi as shown by their morphology and reproductive biology. [2-3-0] Prerequisite: BIOL 121	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 323-L12	BIOL_V	323	L12	Structure and Reproduction of Fungi	W1	The evolutionary diversity of the fungi as shown by their morphology and reproductive biology. [2-3-0] Prerequisite: BIOL 121	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 323-T01	BIOL_V	323	T01	Structure and Reproduction of Fungi	W1	The evolutionary diversity of the fungi as shown by their morphology and reproductive biology. [2-3-0] Prerequisite: BIOL 121	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 323-T02	BIOL_V	323	T02	Structure and Reproduction of Fungi	W1	The evolutionary diversity of the fungi as shown by their morphology and reproductive biology. [2-3-0] Prerequisite: BIOL 121	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 324-101	BIOL_V	324	101	Introduction to Seed Plant Taxonomy	W1	Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-3-0] Prerequisite: BIOL 121 Equivalency: APBI 324	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
BIOL_V 324-L01	BIOL_V	324	L01	Introduction to Seed Plant Taxonomy	W1	Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-3-0] Prerequisite: BIOL 121 Equivalency: APBI 324	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 324-L02	BIOL_V	324	L02	Introduction to Seed Plant Taxonomy	W1	Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-3-0] Prerequisite: BIOL 121 Equivalency: APBI 324	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 325-101	BIOL_V	325	101	Introduction to Animal Mechanics and Locomotion	W1	Comparative aspects of the functional design of skeletal systems and the mechanics of swimming, flying and terrestrial locomotion, with particular reference to the vertebrates. [3-0-0] Prerequisite: BIOL 121	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 326-201	BIOL_V	326	201	Experimental Biology of Invertebrates	W2	Behaviour and ecology of invertebrates as revealed by hands-on experiments in the laboratory and field. Marine emphasis. [1-4-0] Prerequisite: BIOL 205. Corequisite: Either (a) STAT 200 or (b) BIOL 300.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
BIOL_V 326-L01	BIOL_V	326	L01	Experimental Biology of Invertebrates	W2	Behaviour and ecology of invertebrates as revealed by hands-on experiments in the laboratory and field. Marine emphasis. [1-4-0] Prerequisite: BIOL 205. Corequisite: Either (a) STAT 200 or (b) BIOL 300.	In Person Learning	Mon	1:00 p.m. - 5:00 p.m.
BIOL_V 327-101	BIOL_V	327	101	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327	In Person Learning	Tue Thu	8:00 a.m. - 9:00 a.m.
BIOL_V 327-L11	BIOL_V	327	L11	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
BIOL_V 327-L12	BIOL_V	327	L12	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
BIOL_V 327-L13	BIOL_V	327	L13	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.
BIOL_V 327-L14	BIOL_V	327	L14	Introduction to Entomology	W1	A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.

BIOL_V 328-201	BIOL_V	328	201	Ecology and Evolution of Parasites	W2	Morphology, life histories, ecology and evolution of parasites (and infectious agents more broadly) infecting humans and animals. [2-3-0] Prerequisite: BIOL 121	In Person Learning	Wed Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 328-L01	BIOL_V	328	L01	Ecology and Evolution of Parasites	W2	Morphology, life histories, ecology and evolution of parasites (and infectious agents more broadly) infecting humans and animals. [2-3-0] Prerequisite: BIOL 121	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 329-101	BIOL_V	329	101	Cell Receptor Signaling, Communication and Regulation	W1	How cells react to external signals, and how these responses are regulated. Experimental approaches and common themes will be examined using a variety of cell receptors as models. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: BIOL 200.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 329-201	BIOL_V	329	201	Cell Receptor Signaling, Communication and Regulation	W2	How cells react to external signals, and how these responses are regulated. Experimental approaches and common themes will be examined using a variety of cell receptors as models. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: BIOL 200.	In Person Learning	Arranged	Arranged
BIOL_V 329-2W1	BIOL_V	329	2W1	Cell Receptor Signaling, Communication and Regulation	W2	How cells react to external signals, and how these responses are regulated. Experimental approaches and common themes will be examined using a variety of cell receptors as models. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: BIOL 200.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 331-101	BIOL_V	331	101	Developmental Biology	W1	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 331-201	BIOL_V	331	201	Developmental Biology	W2	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 331-L01	BIOL_V	331	L01	Developmental Biology	W2	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 331-L02	BIOL_V	331	L02	Developmental Biology	W2	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 331-L03	BIOL_V	331	L03	Developmental Biology	W2	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 331-L21	BIOL_V	331	L21	Developmental Biology	W1	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 331-L23	BIOL_V	331	L23	Developmental Biology	W1	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 331-L25	BIOL_V	331	L25	Developmental Biology	W1	Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 332-201	BIOL_V	332	201	Protistology	W2	Cell biology, ecology, and evolution of protists; origins of multicellularity; the role of protists in micropaleontology, parasitology, and oceanography. [3-3-0] Prerequisite: BIOL 200	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 332-L01	BIOL_V	332	L01	Protistology	W2	Cell biology, ecology, and evolution of protists; origins of multicellularity; the role of protists in micropaleontology, parasitology, and oceanography. [3-3-0] Prerequisite: BIOL 200	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 335-201	BIOL_V	335	201	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
BIOL_V 335-202	BIOL_V	335	202	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 335-T51	BIOL_V	335	T51	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
BIOL_V 335-T52	BIOL_V	335	T52	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
BIOL_V 335-T53	BIOL_V	335	T53	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
BIOL_V 335-T54	BIOL_V	335	T54	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
BIOL_V 335-T55	BIOL_V	335	T55	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
BIOL_V 335-T56	BIOL_V	335	T56	Molecular Genetics	W2	Isolation and identification of genes, analysis of gene structure; gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234, MICB 322, FRST 302.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.



BIOL_V 336-T12	BIOL_V	336	T12	Fundamentals of Evolutionary Biology	W2	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
BIOL_V 336-T13	BIOL_V	336	T13	Fundamentals of Evolutionary Biology	W2	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
BIOL_V 336-T14	BIOL_V	336	T14	Fundamentals of Evolutionary Biology	W2	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
BIOL_V 336-T40	BIOL_V	336	T40	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
BIOL_V 336-T41	BIOL_V	336	T41	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
BIOL_V 336-T42	BIOL_V	336	T42	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
BIOL_V 336-T43	BIOL_V	336	T43	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
BIOL_V 336-T44	BIOL_V	336	T44	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
BIOL_V 336-T45	BIOL_V	336	T45	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
BIOL_V 336-T46	BIOL_V	336	T46	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
BIOL_V 336-T47	BIOL_V	336	T47	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
BIOL_V 336-T48	BIOL_V	336	T48	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
BIOL_V 336-T49	BIOL_V	336	T49	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
BIOL_V 336-T50	BIOL_V	336	T50	Fundamentals of Evolutionary Biology	W1	Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution. [3-0-2] Prerequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
BIOL_V 337-201	BIOL_V	337	201	Introductory Genetics Laboratory	W2	A laboratory course demonstrating the fundamental principles of inheritance: Mendel's Laws, sex-linkage, mapping, mutagenesis, chromosome structure, developmental biology, biochemical and population genetics. [1-4-0] Prerequisite: BIOL 200. Corequisite: One of BIOL 233, BIOL 234.	In Person Learning	Tue Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 337-202	BIOL_V	337	202	Introductory Genetics Laboratory	W2	A laboratory course demonstrating the fundamental principles of inheritance: Mendel's Laws, sex-linkage, mapping, mutagenesis, chromosome structure, developmental biology, biochemical and population genetics. [1-4-0] Prerequisite: BIOL 200. Corequisite: One of BIOL 233, BIOL 234.	In Person Learning	Wed Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 338-101	BIOL_V	338	101	Introduction to Genomics	W1	An introduction to genome biology and applications of genomics. [3-0-1.5] Prerequisite: One of BIOL 234, BIOL 233, FRST 302.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 338-T01	BIOL_V	338	T01	Introduction to Genomics	W1	An introduction to genome biology and applications of genomics. [3-0-1.5] Prerequisite: One of BIOL 234, BIOL 233, FRST 302.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
BIOL_V 338-T02	BIOL_V	338	T02	Introduction to Genomics	W1	An introduction to genome biology and applications of genomics. [3-0-1.5] Prerequisite: One of BIOL 234, BIOL 233, FRST 302.	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.
BIOL_V 338-T03	BIOL_V	338	T03	Introduction to Genomics	W1	An introduction to genome biology and applications of genomics. [3-0-1.5] Prerequisite: One of BIOL 234, BIOL 233, FRST 302.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 338-T04	BIOL_V	338	T04	Introduction to Genomics	W1	An introduction to genome biology and applications of genomics. [3-0-1.5] Prerequisite: One of BIOL 234, BIOL 233, FRST 302.	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 340-201	BIOL_V	340	201	Introductory Cell Biology Laboratory	W2	Designing and conducting cell biology experiments using unicellular eukaryotes or prokaryotes with emphasis on techniques in microscopy and cell biology. [1-6-0] Prerequisite: BIOL 200 and at least 3rd-year standing in Science and one of (a) BIOL 180 (or BIOL 140), or (b) SCIE 001, or (c) 3rd-year standing in Combined Honours Biophysics.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
BIOL_V 340-L01	BIOL_V	340	L01	Introductory Cell Biology Laboratory	W2	Designing and conducting cell biology experiments using unicellular eukaryotes or prokaryotes with emphasis on techniques in microscopy and cell biology. [1-6-0] Prerequisite: BIOL 200 and at least 3rd-year standing in Science and one of (a) BIOL 180 (or BIOL 140), or (b) SCIE 001, or (c) 3rd-year standing in Combined Honours Biophysics.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.



BIOL_V 344-101	BIOL_V	344	101	Human Heredity and Evolution	W1	Relates genetic and evolutionary concepts to humans. Primarily for upper-level students in the Faculty of Arts. Credit will be granted for only one of BIOL 121 or BIOL 344. Not open to students in the Life Sciences. [3-0-2]	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
BIOL_V 344-T50	BIOL_V	344	T50	Human Heredity and Evolution	W1	Relates genetic and evolutionary concepts to humans. Primarily for upper-level students in the Faculty of Arts. Credit will be granted for only one of BIOL 121 or BIOL 344. Not open to students in the Life Sciences. [3-0-2]	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
BIOL_V 344-T52	BIOL_V	344	T52	Human Heredity and Evolution	W1	Relates genetic and evolutionary concepts to humans. Primarily for upper-level students in the Faculty of Arts. Credit will be granted for only one of BIOL 121 or BIOL 344. Not open to students in the Life Sciences. [3-0-2]	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
BIOL_V 345-201	BIOL_V	345	201	Human Ecology	W2	Basics of ecology are introduced, focussing on observations of the natural world. Assignments, including a group project, consider connections between research, awareness and practical uses of ecology. Not for credit in the Life Sciences. [3-0-2]	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 346-201	BIOL_V	346	201	Microbes and Society	W2	An elementary course in molecular biology primarily for Arts students. The historical development of recent discoveries in molecular biology with emphasis on bacteria and viruses and their interaction with humans. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) Not for credit in Life Sciences. [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 347-101	BIOL_V	347	101	Principles and Methodology in Biological Research	W1	Contemporary research in the Botany and Zoology Departments; history and methodology of scientific discovery; seminars on current problems. Restricted to Honours students in Biology. Not to be taken concurrently with BIOL 449. [2-3-0]	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 348-201	BIOL_V	348	201	Biology of Cannabis	W2	Biological aspects of cannabis, including structure and function, photosynthesis, plant growth, specialized metabolites, neuroscience and the human endocannabinoid system, and applications for human use in medicine, consumer products and textiles. [3-0-0] Prerequisite: A minimum of 3rd year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 350-101	BIOL_V	350	101	Darwinian Medicine	W1	Using the Darwinian theory of natural selection to explore explanations of infectious diseases, allergies, cancer, mental illness, and other human diseases. Please consult the Faculty of Science Credit Exclusion Lists: <a href="http://www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [2-0-2] Prerequisite: Third-year standing. Equivalency: ISCI 350	In Person Learning	Arranged	Arranged
BIOL_V 350-201	BIOL_V	350	201	Darwinian Medicine	W2	Using the Darwinian theory of natural selection to explore explanations of infectious diseases, allergies, cancer, mental illness, and other human diseases. Please consult the Faculty of Science Credit Exclusion Lists: <a href="http://www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [2-0-2] Prerequisite: Third-year standing. Equivalency: ISCI 350	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
BIOL_V 351-101	BIOL_V	351	101	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-3-0] Prerequisite: Either (a) BIOL 121 and one of CHEM 123, CHEM 130; or (b) SCIE 001. CHEM 233 is recommended. Equivalency: APBI351, FRST311	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 351-L10	BIOL_V	351	L10	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-3-0] Prerequisite: Either (a) BIOL 121 and one of CHEM 123, CHEM 130; or (b) SCIE 001. CHEM 233 is recommended. Equivalency: APBI351, FRST311	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 351-L11	BIOL_V	351	L11	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-3-0] Prerequisite: Either (a) BIOL 121 and one of CHEM 123, CHEM 130; or (b) SCIE 001. CHEM 233 is recommended. Equivalency: APBI351, FRST311	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 351-L12	BIOL_V	351	L12	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-3-0] Prerequisite: Either (a) BIOL 121 and one of CHEM 123, CHEM 130; or (b) SCIE 001. CHEM 233 is recommended. Equivalency: APBI351, FRST311	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 351-L13	BIOL_V	351	L13	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-3-0] Prerequisite: Either (a) BIOL 121 and one of CHEM 123, CHEM 130; or (b) SCIE 001. CHEM 233 is recommended. Equivalency: APBI351, FRST311	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 352-201	BIOL_V	352	201	Plant Physiology II: Plant Development	W2	Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FRST 302. CHEM 233 is recommended.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
BIOL_V 352-L21	BIOL_V	352	L21	Plant Physiology II: Plant Development	W2	Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FRST 302. CHEM 233 is recommended.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 352-L22	BIOL_V	352	L22	Plant Physiology II: Plant Development	W2	Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FRST 302. CHEM 233 is recommended.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 352-L23	BIOL_V	352	L23	Plant Physiology II: Plant Development	W2	Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FRST 302. CHEM 233 is recommended.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 352-L24	BIOL_V	352	L24	Plant Physiology II: Plant Development	W2	Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FRST 302. CHEM 233 is recommended.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.

BIOL_V 352-T21	BIOL_V	352	T21	Plant Physiology II: Plant Development	W2	Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FRST 302, CHEM 233 is recommended.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
BIOL_V 362-201	BIOL_V	362	201	Cellular Dynamics	W2	The cytoskeleton, cell dynamics, and regulation of cellular activities. Preference will be given to Majors or Honours students in Biology and Combined Honours Biophysics. [3-0-0] Prerequisite: BIOL 200 and one of APBI 312, APBI 351, BIOL 260, BIOL 351, BIOL 352, BIOL 361, FRST 311.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 363-101	BIOL_V	363	101	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
BIOL_V 363-201	BIOL_V	363	201	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
BIOL_V 363-L01	BIOL_V	363	L01	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
BIOL_V 363-L02	BIOL_V	363	L02	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
BIOL_V 363-L03	BIOL_V	363	L03	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
BIOL_V 363-L04	BIOL_V	363	L04	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
BIOL_V 363-L11	BIOL_V	363	L11	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
BIOL_V 363-L12	BIOL_V	363	L12	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
BIOL_V 363-L13	BIOL_V	363	L13	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
BIOL_V 363-L14	BIOL_V	363	L14	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
BIOL_V 363-T01	BIOL_V	363	T01	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
BIOL_V 363-T02	BIOL_V	363	T02	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
BIOL_V 363-T03	BIOL_V	363	T03	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
BIOL_V 363-T04	BIOL_V	363	T04	Laboratory in Animal Physiology	W1	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
BIOL_V 363-T11	BIOL_V	363	T11	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
BIOL_V 363-T12	BIOL_V	363	T12	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
BIOL_V 363-T13	BIOL_V	363	T13	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
BIOL_V 363-T14	BIOL_V	363	T14	Laboratory in Animal Physiology	W2	Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
BIOL_V 364-201	BIOL_V	364	201	Comparative Cardiovascular, Respiratory and Osmoregulatory Physiology	W2	Cardiovascular, respiratory, and osmoregulatory physiology. Preference will be given to students who are in Biology, Nutritional Sciences, and Combined Honours Biophysics. [3-0-0] Prerequisite: BIOL 204 and one of BIOL 260, BIOL 361. Equivalency: APBI 311	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 370-101	BIOL_V	370	101	Principles of Muscle Physiology and Energetics	W1	Introduction to the structure and function of the muscular system, metabolism and energetics from a comparative perspective across vertebrates and invertebrates. [3-0-0] Prerequisite: BIOL 260 and one of BIOL 200, BIOL 201, BIOC 202, BIOC 203.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

BIOL_V 371-101	BIOL_V	371	101	Principles of Neurobiology I	W1	Introduction to the structure and function of the nervous system, excitable membranes, and synaptic signalling using representative vertebrate and invertebrate species. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: BIOL 200 and one of BIOL 260, NSCI 200, PSYC 270, PSYC 271, PSYC 304, CAPS 301.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 371-201	BIOL_V	371	201	Principles of Neurobiology I	W2	Introduction to the structure and function of the nervous system, excitable membranes, and synaptic signalling using representative vertebrate and invertebrate species. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: BIOL 200 and one of BIOL 260, NSCI 200, PSYC 270, PSYC 271, PSYC 304, CAPS 301.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 372-101	BIOL_V	372	101	Principles of Neurobiology II	W1	Examination of the neural systems underlying sensation, action, and complex behaviours using representative vertebrate and invertebrate species. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: BIOL 371.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 372-201	BIOL_V	372	201	Principles of Neurobiology II	W2	Examination of the neural systems underlying sensation, action, and complex behaviours using representative vertebrate and invertebrate species. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: BIOL 371.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BIOL_V 398-510	BIOL_V	398	510	Co-operative Work Placement I	W1	Work experience in an industrial setting, taken during Winter Session (Term 2) of third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOL_V 398-610	BIOL_V	398	610	Co-operative Work Placement I	W2	Work experience in an industrial setting, taken during Winter Session (Term 2) of third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOL_V 399-510	BIOL_V	399	510	Co-operative Work Placement II	W1	Work experience in an industrial research setting, taken during Summer Session (Terms 1 and 2) following third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: [BIOL398]	In Person Learning	Arranged	Arranged
BIOL_V 399-610	BIOL_V	399	610	Co-operative Work Placement II	W2	Work experience in an industrial research setting, taken during Summer Session (Terms 1 and 2) following third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: [BIOL398]	In Person Learning	Arranged	Arranged
BIOL_V 402-101	BIOL_V	402	101	Aquatic Ecology	W1	Theoretical and applied limnology; ecology of inland water organisms in relation to physical, chemical and biological factors. One weekend field trip required. [2-4-0] Prerequisite: BIOL 230 and one of BIOL 300, STAT 200.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 402-L01	BIOL_V	402	L01	Aquatic Ecology	W1	Theoretical and applied limnology; ecology of inland water organisms in relation to physical, chemical and biological factors. One weekend field trip required. [2-4-0] Prerequisite: BIOL 230 and one of BIOL 300, STAT 200.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
BIOL_V 403-201	BIOL_V	403	201	Microbial Ecology	W2	Theoretical and applied ecology of microbes. Focus on microbial symbionts of animals, plants and seaweeds. Research project development through critical analysis of microbial ecological literature and computational analysis of ecological data. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: One of BIOL 121, SCIE 001, BIOL 230 and one of BIOL 300, FRST 231, STAT 200. Fourth-year standing.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
BIOL_V 403-L01	BIOL_V	403	L01	Microbial Ecology	W2	Theoretical and applied ecology of microbes. Focus on microbial symbionts of animals, plants and seaweeds. Research project development through critical analysis of microbial ecological literature and computational analysis of ecological data. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: One of BIOL 121, SCIE 001, BIOL 230 and one of BIOL 300, FRST 231, STAT 200. Fourth-year standing.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 404-201	BIOL_V	404	201	Ecological Methodology	W2	Design, execution, and analysis of ecological surveys and experiments. Practical field methods for estimating population metrics and describing community structure. Computer techniques for the statistical analysis of ecological data. [2-4-0] Prerequisite: BIOL 230 and one of BIOL 300, STAT 200.	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
BIOL_V 404-L01	BIOL_V	404	L01	Ecological Methodology	W2	Design, execution, and analysis of ecological surveys and experiments. Practical field methods for estimating population metrics and describing community structure. Computer techniques for the statistical analysis of ecological data. [2-4-0] Prerequisite: BIOL 230 and one of BIOL 300, STAT 200.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 404-L02	BIOL_V	404	L02	Ecological Methodology	W2	Design, execution, and analysis of ecological surveys and experiments. Practical field methods for estimating population metrics and describing community structure. Computer techniques for the statistical analysis of ecological data. [2-4-0] Prerequisite: BIOL 230 and one of BIOL 300, STAT 200.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 406-201	BIOL_V	406	201	Plant Ecology I	W2	Plant community ecology including a consideration of the major approaches to sampling, analyzing and interpreting vegetation patterns. Instruction given in field work and computer analysis of field data. [3-3-0] Prerequisite: BIOL 230. BIOL 324 is recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 406-L01	BIOL_V	406	L01	Plant Ecology I	W2	Plant community ecology including a consideration of the major approaches to sampling, analyzing and interpreting vegetation patterns. Instruction given in field work and computer analysis of field data. [3-3-0] Prerequisite: BIOL 230. BIOL 324 is recommended.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
BIOL_V 406-L02	BIOL_V	406	L02	Plant Ecology I	W2	Plant community ecology including a consideration of the major approaches to sampling, analyzing and interpreting vegetation patterns. Instruction given in field work and computer analysis of field data. [3-3-0] Prerequisite: BIOL 230. BIOL 324 is recommended.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
BIOL_V 411-101	BIOL_V	411	101	Insect Ecology	W1	Behavioural, population and community ecology of insects. Interactions between insects and plants and the application of the principles of insect ecology to biological control of insects and weeds. [3-0-0] Prerequisite: One of BIOL 205, BIOL 327, APBI 327. Equivalency: APBI 427	In Person Learning	Arranged	Arranged
BIOL_V 411-201	BIOL_V	411	201	Insect Ecology	W1	Behavioural, population and community ecology of insects. Interactions between insects and plants and the application of the principles of insect ecology to biological control of insects and weeds. [3-0-0] Prerequisite: One of BIOL 205, BIOL 327, APBI 327. Equivalency: APBI 427	In Person Learning	Arranged	Arranged
BIOL_V 412-201	BIOL_V	412	201	Phytogeography	W2	Description and interpretation of present and past floristic vegetational patterns; integration of evolutionary, ecological, and phytogeographical concepts. Terrestrial and aquatic plants are considered. Restricted to students of third and fourth years. [3-0-0] Prerequisite: BIOL 121	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.

BIOL_V 415-101	BIOL_V	415	101	Evolutionary Processes in Plants	W1	Experimental and comparative analysis of evolutionary processes, speciation, and phylogenetic patterns in plants. [2-0-0] Prerequisite: BIOL 336.	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
BIOL_V 415-T01	BIOL_V	415	T01	Evolutionary Processes in Plants	W1	Experimental and comparative analysis of evolutionary processes, speciation, and phylogenetic patterns in plants. [2-0-0] Prerequisite: BIOL 336.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
BIOL_V 416-201	BIOL_V	416	201	Principles of Conservation Biology	W2	Ecological basis of conserving biological diversity and ecosystem services; application of ecological theory to global and local conservation problems in the context of economic, legal, political, and social perspectives. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-0-2] Prerequisite: One of BIOL 230, FRST 201.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
BIOL_V 416-202	BIOL_V	416	202	Principles of Conservation Biology	W2	Ecological basis of conserving biological diversity and ecosystem services; application of ecological theory to global and local conservation problems in the context of economic, legal, political, and social perspectives. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-0-2] Prerequisite: One of BIOL 230, FRST 201.	In Person Learning	Arranged	Arranged
BIOL_V 416-T01	BIOL_V	416	T01	Principles of Conservation Biology	W2	Ecological basis of conserving biological diversity and ecosystem services; application of ecological theory to global and local conservation problems in the context of economic, legal, political, and social perspectives. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-0-2] Prerequisite: One of BIOL 230, FRST 201.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 416-T02	BIOL_V	416	T02	Principles of Conservation Biology	W2	Ecological basis of conserving biological diversity and ecosystem services; application of ecological theory to global and local conservation problems in the context of economic, legal, political, and social perspectives. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-0-2] Prerequisite: One of BIOL 230, FRST 201.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BIOL_V 417-101	BIOL_V	417	101	Phylogenetic Biology	W1	Biodiversity from an evolutionary perspective. The evolutionary (phylogenetic) tree of genetic descent that links all organisms: its reconstruction, interpretation, and implications for fields from ecology to molecular biology. [2-0-2] Prerequisite: BIOL 200 and one of BIOL 233, BIOL 234. BIOL 336 is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 417-L01	BIOL_V	417	L01	Phylogenetic Biology	W1	Biodiversity from an evolutionary perspective. The evolutionary (phylogenetic) tree of genetic descent that links all organisms: its reconstruction, interpretation, and implications for fields from ecology to molecular biology. [2-0-2] Prerequisite: BIOL 200 and one of BIOL 233, BIOL 234. BIOL 336 is recommended.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 418-101	BIOL_V	418	101	Evolutionary Ecology	W1	Ecological adaptation and evolutionary processes in contemporary populations; natural selection, variation, optimization, foraging theory, coevolution, arms races; life history theory, evolution of sex, sexual selection, evolution in managed populations. [2-2-0] Prerequisite: BIOL 336 and BIOL 230.	In Person Learning	Arranged	Arranged
BIOL_V 418-T01	BIOL_V	418	T01	Evolutionary Ecology	W1	Ecological adaptation and evolutionary processes in contemporary populations; natural selection, variation, optimization, foraging theory, coevolution, arms races; life history theory, evolution of sex, sexual selection, evolution in managed populations. [2-2-0] Prerequisite: BIOL 336 and BIOL 230.	In Person Learning	Arranged	Arranged
BIOL_V 420-201	BIOL_V	420	201	Ocean Conservation and Sustainability	W2	An interdisciplinary conservation course with a solutions-oriented approach to marine issues, drawing from natural sciences, social sciences, business, law, and communication. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: Fourth-year standing.	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
BIOL_V 420-T01	BIOL_V	420	T01	Ocean Conservation and Sustainability	W2	An interdisciplinary conservation course with a solutions-oriented approach to marine issues, drawing from natural sciences, social sciences, business, law, and communication. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: Fourth-year standing.	In Person Learning	Thu	11:00 a.m. - 2:00 p.m.
BIOL_V 421-101	BIOL_V	421	101	Plant-Microbe Interactions	W1	Biology and physiology of selected plant-microbe relationships. Impacts of plant-microbe relationships on society. [3-0-2] Prerequisite: BIOL 200 and one of BIOC 202, BIOC 203, BIOL 201, BIOL 233, BIOL 234, BIOL 260. Equivalency: APBI 426	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BIOL_V 421-T01	BIOL_V	421	T01	Plant-Microbe Interactions	W1	Biology and physiology of selected plant-microbe relationships. Impacts of plant-microbe relationships on society. [3-0-2] Prerequisite: BIOL 200 and one of BIOC 202, BIOC 203, BIOL 201, BIOL 233, BIOL 234, BIOL 260. Equivalency: APBI 426	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
BIOL_V 424-201	BIOL_V	424	201	Tropical Ecology and Conservation	W2	Ecology, function, history and conservation of tropical systems. Focus on ecological and evolutionary principles using tropical landscapes as a geographic template. Assessment of factors that make tropical systems vulnerable to degradation. Research project development using analysis of tropical ecology literature. [2-0-2] Prerequisite: BIOL 121 and one of BIOL 230, FRST 201, GEOS 207, GEOB 207.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
BIOL_V 424-L01	BIOL_V	424	L01	Tropical Ecology and Conservation	W2	Ecology, function, history and conservation of tropical systems. Focus on ecological and evolutionary principles using tropical landscapes as a geographic template. Assessment of factors that make tropical systems vulnerable to degradation. Research project development using analysis of tropical ecology literature. [2-0-2] Prerequisite: BIOL 121 and one of BIOL 230, FRST 201, GEOS 207, GEOB 207.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 427-101	BIOL_V	427	101	Ornithology and Herpetology	W1	Ecology, evolution, behavior, and conservation of birds, amphibians, and reptiles. Laboratories and field projects will focus on identification, systematics, and natural history, with particular attention to species from British Columbia. [2-3-0] Prerequisite: BIOL 121.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
BIOL_V 427-L01	BIOL_V	427	L01	Ornithology and Herpetology	W1	Ecology, evolution, behavior, and conservation of birds, amphibians, and reptiles. Laboratories and field projects will focus on identification, systematics, and natural history, with particular attention to species from British Columbia. [2-3-0] Prerequisite: BIOL 121.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 427-L02	BIOL_V	427	L02	Ornithology and Herpetology	W1	Ecology, evolution, behavior, and conservation of birds, amphibians, and reptiles. Laboratories and field projects will focus on identification, systematics, and natural history, with particular attention to species from British Columbia. [2-3-0] Prerequisite: BIOL 121.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
BIOL_V 428-101	BIOL_V	428	101	Evolutionary Morphology of Marine Invertebrates	W1	Comparative analysis of marine invertebrate morphology from a macroevolutionary perspective. Origin and evolution of reoccurring adaptations in meiofaunal, benthic, pelagic, and deep-sea invertebrates, including their larval stages. [3-0-0] Prerequisite: BIOL 205 And third-year standing.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.

BIOL_V 430-201	BIOL_V	430	201	Genome Evolution	W2	Integration of molecular genetics and genomics with evolutionary biology. Emphasis on the evolutionary dynamics of genomes and the evolutionary implications of recent discoveries in molecular genetics and genomics. [3-0-0] Prerequisite: One of BIOL 335, BIOL 336, BIOL 338.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 430-202	BIOL_V	430	202	Genome Evolution	W2	Integration of molecular genetics and genomics with evolutionary biology. Emphasis on the evolutionary dynamics of genomes and the evolutionary implications of recent discoveries in molecular genetics and genomics. [3-0-0] Prerequisite: One of BIOL 335, BIOL 336, BIOL 338.	In Person Learning	Arranged	Arranged
BIOL_V 431-101	BIOL_V	431	101	Evolutionary Cell Biology	W1	Ultrastructure, biogenesis, and evolution of eukaryotic cells and cell organelles, including their macromolecular basis. [3-0-0] Prerequisite: BIOL200 And fourth-year standing.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 432-201	BIOL_V	432	201	Research Strategies and Techniques in Cell Biology	W2	Major physiological mechanisms that define eukaryotic cells, explored through student visits to UBC research laboratories and discussion of recent scientific literature, with emphasis on the techniques and strategies that enable researchers to test hypotheses and advance new concepts. [3-0-0] Prerequisite: BIOL 200 and one of BIOL 233, BIOL 234. And fourth-year standing.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 433-201	BIOL_V	433	201	Plant Genetics	W2	Emphasis on molecular aspects. Systems and techniques for genetic analysis in plants; isolation and regulation of plant genes; genetic dissection of plant-specific processes; transposable elements; gene transfer in plants; cytoplasmic inheritance; genetic engineering. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: BIOL 335	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 434-201	BIOL_V	434	201	Population Genetics	W2	Theoretical and experimental aspects of population and quantitative genetics. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-2] Prerequisite: BIOL 336 and either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FRST 302.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 436-101	BIOL_V	436	101	Integrated Functional Genomics	W1	Global transcript, protein, and metabolite profiling technologies and their integration; applications focus on plant functions and plant interactions with pathogens and pests. [3-0-0] Prerequisite: One of BIOL 335, BIOL 338. Equivalency: FMH 436	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 437-101	BIOL_V	437	101	Laboratory in Animal Cell Molecular Biology	W1	The use of recombinant DNA techniques to explore problems in animal developmental biology. [2-4-0] Prerequisite: All of BIOL 331, BIOL 335 and one of BIOL 201, BIOL 202, BIOL 203.	In Person Learning	Thu	10:00 a.m. - 4:00 p.m.
BIOL_V 438-201	BIOL_V	438	201	Zoological Physics	W2	Animal systems viewed from a physicist's perspective. Topics include sensory systems, energy budgets, locomotion, internal flows, physical advantages of grouping. [3-0-0] Prerequisite: One of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, SCIE 001. BIOL 325 is recommended. Equivalency: PHYS 438	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BIOL_V 439-201	BIOL_V	439	201	Advanced Microscopy Techniques	W2	Microscopy techniques used in biological research. Principles, applications and hands-on training of optical and electron microscopy. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: BIOL 200. Corequisite: One of BIOL 448, BIOL 449. and Fourth year standing.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
BIOL_V 439-101	BIOL_V	439	101	Advanced Microscopy Techniques	W2	Microscopy techniques used in biological research. Principles, applications and hands-on training of optical and electron microscopy. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: BIOL 200. Corequisite: One of BIOL 448, BIOL 449. and Fourth year standing.	In Person Learning	Thu	12:30 p.m. - 4:30 p.m.
BIOL_V 440-101	BIOL_V	440	101	Plant Genomics	W1	Concepts, principles, applications, and recent discoveries in genome structure, genetics, and comparative genomics in plants with a focus on economically important plants. [3-0-0] Corequisite: One of BIOL 335, BIOL 338. Equivalency: APBI 440	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BIOL_V 441-101	BIOL_V	441	101	Advanced Topics in Cell Biology	W1	Analysis of cellular organelles and the intracellular traffic between them, concentrating on mammalian cell systems. [3-0-0] Prerequisite: One of BIOL 340, BIOL 341 and one of BIOL 361, BIOL 362, BIOL 370, BIOL 371.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 445-201	BIOL_V	445	201	Darwin's Fishes	W2	A series of computer-assisted lectures using ichthyology and the work of Charles Darwin to illustrate basic principles of biology, and their practical implementation, i.e., how biologists select research programs, generate and test hypotheses, and present their case to peers and the public. [2-0-2] Prerequisite: Third-year standing in Science is required.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
BIOL_V 445-T01	BIOL_V	445	T01	Darwin's Fishes	W2	A series of computer-assisted lectures using ichthyology and the work of Charles Darwin to illustrate basic principles of biology, and their practical implementation, i.e., how biologists select research programs, generate and test hypotheses, and present their case to peers and the public. [2-0-2] Prerequisite: Third-year standing in Science is required.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
BIOL_V 447-101	BIOL_V	447	101	Principles and Methodology in Biological Research	W1	Seminars, debates, workshops and tutorials designed to produce competence in specific areas of Biology. Restricted to Honours students in Biology. [2-3-0] Corequisite: BIOL 449	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 448-A_101	BIOL_V	448	A_101	Directed Studies in Biology	W1	A course designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOL_V 448-A_201	BIOL_V	448	A_201	Directed Studies in Biology	W2	A course designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOL_V 448-B_101	BIOL_V	448	B_101	Directed Studies in Biology	W1	A course designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

BIOL_V 448-B_201	BIOL_V	448	B	B_201	Directed Studies in Biology	W2	A course designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOL_V 448-D_006	BIOL_V	448	D	D_006	Directed Studies in Biology	W1-2	A course designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOL_V 448-D_106	BIOL_V	448	D	D_106	Directed Studies in Biology	W1	A course designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOL_V 448-D_206	BIOL_V	448	D	D_206	Directed Studies in Biology	W2	A course designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOL_V 449-001	BIOL_V	449		001	Directed Biological Research	W1-2	A course designed to allow students to undertake a research project in selected fields. Open only to Honours students in Biology, with permission of the supervisor. Presentation of a thesis and an oral examination are required. Corequisite: BIOL 447	In Person Learning	Arranged	Arranged
BIOL_V 450-201	BIOL_V	450		201	Molecular Adaptation of Animals to the Environment	W2	Physiological, biochemical, and molecular strategies of adaptation of animals to environmental challenges. The evolution of genetic and biochemical systems, and their impact on animal structure and function. [3-0-0] Prerequisite: One of APBI 311, BIOL 361, BIOL 362, BIOL 364, BIOL 370, BIOL 371 and one of BIOL 201, BIOC 202, BIOC 203. BIOL 457 is recommended.	In Person Learning	Arranged	Arranged
BIOL_V 451-201	BIOL_V	451		201	Comparative Neurobiology	W2	Advanced investigations of the evolution of animal nervous systems, integrating studies of diverse species to understand fundamental neurobiology. [3-0-0] Prerequisite: One of BIOL 371, BIOL 372, CAPS 301, PSYC 304, PSYC 367, PSYC 370.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BIOL_V 453-101	BIOL_V	453		101	Insect Physiology	W1	Physiological adaptations used by insects, including adaptations used to survive in extreme environments. Homeostatic mechanisms, neurophysiology, and experimental techniques. [3-3-0] Prerequisite: One of BIOL 204, BIOL 205, BIOL 327, APBI 327 and one of BIOL 361, BIOL 364, BIOL 370, BIOL 371, APBI 311. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 453-L01	BIOL_V	453		L01	Insect Physiology	W1	Physiological adaptations used by insects, including adaptations used to survive in extreme environments. Homeostatic mechanisms, neurophysiology, and experimental techniques. [3-3-0] Prerequisite: One of BIOL 204, BIOL 205, BIOL 327, APBI 327 and one of BIOL 361, BIOL 364, BIOL 370, BIOL 371, APBI 311. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
BIOL_V 454-201	BIOL_V	454		201	Comparative Animal Physiology	W2	Selected topics in physiology emphasizing comparisons between diverse phylogenetic groups of animals. [3-0-0] Prerequisite: One of APBI 311, BIOL 362, BIOL 364.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 457-101	BIOL_V	457		101	Comparative Environmental Physiology	W1	A survey of physiological adaptations of animals to different environments. [3-0-0] Prerequisite: One of APBI 311, BIOL 364.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 458-101	BIOL_V	458		101	Developmental Neurobiology	W1	Cellular, molecular and physiological aspects of nervous system development with applications to understanding adult nervous system function and neurological disorders. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 458-201	BIOL_V	458		201	Developmental Neurobiology	W2	Cellular, molecular and physiological aspects of nervous system development with applications to understanding adult nervous system function and neurological disorders. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 459-201	BIOL_V	459		201	Neurobiology of Sensory and Motor Systems	W2	Analysis of the mechanisms of sensory processing and motor orchestration using vertebrate and invertebrate model systems. Neural circuit structure, specialization, information coding, integration, and behaviour. [3-0-0] Prerequisite: One of BIOL 372, CAPS 301, PSYC 304, PSYC 367, PSYC 370.	In Person Learning	Wed Fri	1:00 p.m. - 2:30 p.m.
BIOL_V 460-101	BIOL_V	460		101	Neurobiology of Vision	W1	Advanced investigation of animal vision; critical analysis of recent literature and research project development in visual neurobiology. [3-0-0] Prerequisite: One of BIOL 372, CAPS 301, PSYC 304, PSYC 367, PSYC 370.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BIOL_V 462-201	BIOL_V	462		201	Ecological Plant Biochemistry	W2	The structure, biosynthesis, distribution and biological function of secondary plant metabolites. [3-0-0] Prerequisite: BIOL 200, BIOL 201, BIOL 209 or BIOL 210 is recommended. Equivalency: FRST 413	In Person Learning	Wed	8:00 a.m. - 11:00 a.m.
BIOL_V 463-101	BIOL_V	463		101	Gene Regulation in Development	W1	Control of gene expression in development; the genetic and physiological basis of epigenetic determination; inductive interactions. [3-0-0] Prerequisite: Either (a) BIOL 335 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BIOL_V 464-201	BIOL_V	464		201	Animal Developmental Genetics	W2	Role of genes in embryonic development. Emphasis on tissue specific expression patterns and the role of genetic networks in establishing cell types. [3-0-0] Prerequisite: BIOL 463	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BIOL_V 465-101	BIOL_V	465		101	Diversity and Evolution of Fishes	W1	Introduction to fish diversity, with a focus on their phylogenetic interrelationships and the evolutionary, ecological, and biogeographic processes involved in generating patterns of fish biodiversity. [2-3-0] Prerequisite: BIOL 204	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
BIOL_V 465-L01	BIOL_V	465		L01	Diversity and Evolution of Fishes	W1	Introduction to fish diversity, with a focus on their phylogenetic interrelationships and the evolutionary, ecological, and biogeographic processes involved in generating patterns of fish biodiversity. [2-3-0] Prerequisite: BIOL 204	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.

BIOL_V 465-L02	BIOL_V	465		L02	Diversity and Evolution of Fishes	W1	Introduction to fish diversity, with a focus on their phylogenetic interrelationships and the evolutionary, ecological, and biogeographic processes involved in generating patterns of fish biodiversity. [2-3-0] Prerequisite: BIOL 204	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BIOL_V 488-A_201	BIOL_V	488	A	A_201	Topics in Biology	W2	Selected topics in a specific area within Biology. May be taken more than once for credit with permission of the Department. Prerequisite: Third-year standing in a Life Science specialization.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
BIOL_V 488-B_101	BIOL_V	488	B	B_101	Topics in Biology	W1	Selected topics in a specific area within Biology. May be taken more than once for credit with permission of the Department. Prerequisite: Third-year standing in a Life Science specialization.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 498-510	BIOL_V	498		510	Co-operative Work Placement III	W2	Work experience in an industrial research setting, taken during the Summer Session (Terms 1 and 2) following fourth year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOL_V 498-610	BIOL_V	498		610	Co-operative Work Placement III	W1	Work experience in an industrial research setting, taken during the Summer Session (Terms 1 and 2) following fourth year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOL_V 499-510	BIOL_V	499		510	Co-operative Work Placement IV	W2	Work experience in an industrial research setting, taken during the Winter Session (Terms 1 and 2) following fourth year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOL 399, BIOL 498	In Person Learning	Arranged	Arranged
BIOL_V 499-610	BIOL_V	499		610	Co-operative Work Placement IV	W1	Work experience in an industrial research setting, taken during the Winter Session (Terms 1 and 2) following fourth year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOL 399, BIOL 498	In Person Learning	Arranged	Arranged
BIOL_V 501-201	BIOL_V	501		201	Quantitative Methods in Ecology and Evolution	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOL 300 or equivalent and graduate student standing.	In Person Learning	Tue Thu	1:00 p.m. - 3:00 p.m.
BIOL_V 503-201	BIOL_V	503		201	Microbial Ecology	W2	Theoretical and applied ecology of microbes. Focus on microbial symbionts of animals, plants and seaweeds. Critical analysis of microbial ecological literature and computational analysis of ecological data. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading. [2-3-0]	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
BIOL_V 503-L01	BIOL_V	503		L01	Microbial Ecology	W2	Theoretical and applied ecology of microbes. Focus on microbial symbionts of animals, plants and seaweeds. Critical analysis of microbial ecological literature and computational analysis of ecological data. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading. [2-3-0]	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
BIOL_V 509-201	BIOL_V	509		201	Population and Quantitative Genetics	W2	Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
BIOL_V 525-D_101	BIOL_V	525	D	D_101	Topics in Systematics and Evolution	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	10:00 a.m. - 4:00 p.m.
BIOL_V 530-101	BIOL_V	530		101	The Biology of the Cell	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
BIOL_V 533-201	BIOL_V	533		201	Plant Genetics	W2	Emphasis on molecular aspects. Systems and techniques for genetic analysis in plants; isolation and regulation of plant genes; genetic dissection of plant-specific processes; transposable elements; gene transfer in plants; cytoplasmic inheritance; genetic engineering. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: BIOL 335.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BIOL_V 535-101	BIOL_V	535		101	Teaching and Learning in the Life Sciences	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BIOL_V 537-101	BIOL_V	537		101	Topics in Biotechnology	W1	Research reviews, class discussions, and presentations about current research in the diverse areas of biotechnology. Topics include the research interests of members of the UBC Biotechnology Laboratory. This course is not eligible for Credit/D/Fail grading. [1.5-0]	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
BIOL_V 539-201	BIOL_V	539		201	Advanced Microscopy Techniques	W2	Microscopy techniques used in biological research. Principles, applications and hands-on training of optical and electron microscopy. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading. [2-4-0]	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
BIOL_V 539-L01	BIOL_V	539		L01	Advanced Microscopy Techniques	W2	Microscopy techniques used in biological research. Principles, applications and hands-on training of optical and electron microscopy. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading. [2-4-0]	In Person Learning	Thu	12:30 p.m. - 4:30 p.m.
BIOL_V 548-B_101	BIOL_V	548	B	B_101	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BIOL_V 548-E_101	BIOL_V	548	E	E_101	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	1:00 p.m. - 2:30 p.m.



BIOL_V 548-S_201	BIOL_V	548	S	S_201	Advanced Topics in Biology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	1:30 p.m. - 3:00 p.m.
BIOL_V 548-S_202	BIOL_V	548	S	S_202	Advanced Topics in Biology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	1:30 p.m. - 3:00 p.m.
BIOL_V 548-T_101	BIOL_V	548	T	T_101	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Tue	8:00 a.m. - 9:30 a.m.
BIOL_V 548-T_102	BIOL_V	548	T	T_102	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Thu	8:00 a.m. - 9:30 a.m.
BIOL_V 548-U_101	BIOL_V	548	U	U_101	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Tue	10:00 a.m. - 11:30 a.m.
BIOL_V 548-U_102	BIOL_V	548	U	U_102	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Thu	10:00 a.m. - 11:30 a.m.
BIOL_V 548-V_101	BIOL_V	548	V	V_101	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Tue	10:00 a.m. - 11:30 a.m.
BIOL_V 548-V_102	BIOL_V	548	V	V_102	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Thu	10:00 a.m. - 11:30 a.m.
BIOL_V 548-W_101	BIOL_V	548	W	W_101	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Tue	8:00 a.m. - 9:30 a.m.
BIOL_V 548-W_102	BIOL_V	548	W	W_102	Advanced Topics in Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Thu	8:00 a.m. - 9:30 a.m.
BIOT_V 280-001	BIOT_V	280		001	Introductory Biotechnology	W1-2	Block registration for the biotechnology, microbiology, physiology, communication for biotechnology, organic chemistry, information technology, plant anatomy, plant physiology and cell biology courses taken in the Joint BCIT/UBC Degree in Biotechnology. Credit limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged
BIOT_V 380-001	BIOT_V	380		001	Advanced Biotechnology	W1-2	Block registration for the microbiology, molecular genetics, biochemistry, management and regulatory affairs, process systems, analytical chemistry and communication courses taken in the BCIT/UBC Joint Degree in Biotechnology. Credit limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged
BMEG_V 101-201	BMEG_V	101		201	Introduction to Biomedical Engineering	W2	Foundational material spanning the four streams of the BMEG undergraduate program. Topics include: sensors and instrumentation; biosignals; physiological modeling; biomechanics; biomaterials; cellular engineering; regenerative medicine; and engineering design in these contexts. [3-0-2*] Prerequisite: APSC 100. Corequisite: BMEG 102.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
BMEG_V 101-9AR	BMEG_V	101		9AR	Introduction to Biomedical Engineering	W2	Foundational material spanning the four streams of the BMEG undergraduate program. Topics include: sensors and instrumentation; biosignals; physiological modeling; biomechanics; biomaterials; cellular engineering; regenerative medicine; and engineering design in these contexts. [3-0-2*] Prerequisite: APSC 100. Corequisite: BMEG 102.	In Person Learning	Arranged	Arranged
BMEG_V 101-T2A	BMEG_V	101		T2A	Introduction to Biomedical Engineering	W2	Foundational material spanning the four streams of the BMEG undergraduate program. Topics include: sensors and instrumentation; biosignals; physiological modeling; biomechanics; biomaterials; cellular engineering; regenerative medicine; and engineering design in these contexts. [3-0-2*] Prerequisite: APSC 100. Corequisite: BMEG 102.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 7:00 p.m.
BMEG_V 101-T2B	BMEG_V	101		T2B	Introduction to Biomedical Engineering	W2	Foundational material spanning the four streams of the BMEG undergraduate program. Topics include: sensors and instrumentation; biosignals; physiological modeling; biomechanics; biomaterials; cellular engineering; regenerative medicine; and engineering design in these contexts. [3-0-2*] Prerequisite: APSC 100. Corequisite: BMEG 102.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 7:00 p.m.
BMEG_V 102-201	BMEG_V	102		201	Biomedical Engineering Lab	W2	Rapid prototyping of mechanical, electrical and electromechanical systems. Building parts with state of the art software and 3-D printing. Use of laboratory equipment and instrumentation. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading. [1-2-0] Prerequisite: One of PHYS 12, PHYS 100 Corequisite: BMEG 101.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
BMEG_V 102-9AR	BMEG_V	102		9AR	Biomedical Engineering Lab	W2	Rapid prototyping of mechanical, electrical and electromechanical systems. Building parts with state of the art software and 3-D printing. Use of laboratory equipment and instrumentation. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading. [1-2-0] Prerequisite: One of PHYS 12, PHYS 100 Corequisite: BMEG 101.	In Person Learning	Arranged	Arranged
BMEG_V 102-L2A	BMEG_V	102		L2A	Biomedical Engineering Lab	W2	Rapid prototyping of mechanical, electrical and electromechanical systems. Building parts with state of the art software and 3-D printing. Use of laboratory equipment and instrumentation. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading. [1-2-0] Prerequisite: One of PHYS 12, PHYS 100 Corequisite: BMEG 101.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
BMEG_V 102-L2B	BMEG_V	102		L2B	Biomedical Engineering Lab	W2	Rapid prototyping of mechanical, electrical and electromechanical systems. Building parts with state of the art software and 3-D printing. Use of laboratory equipment and instrumentation. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading. [1-2-0] Prerequisite: One of PHYS 12, PHYS 100 Corequisite: BMEG 101.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.

BMEG_V 102-L2C	BMEG_V	102	L2C	Biomedical Engineering Lab	W2	Rapid prototyping of mechanical, electrical and electromechanical systems. Building parts with state of the art software and 3-D printing. Use of laboratory equipment and instrumentation. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading. [1-2-0] Prerequisite: One of PHYS 12, PHYS 100 Corequisite: BMEG 101.	In Person Learning	Tue	4:30 p.m. - 6:30 p.m.
BMEG_V 201-201	BMEG_V	201	201	Technical Communication for Biomedical Engineers	W2	Report preparation, business correspondence, and oral presentation in biomedical engineering specific cases and projects. Credit will be granted for only one of BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BMEG_V 201-202	BMEG_V	201	202	Technical Communication for Biomedical Engineers	W2	Report preparation, business correspondence, and oral presentation in biomedical engineering specific cases and projects. Credit will be granted for only one of BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
BMEG_V 201-203	BMEG_V	201	203	Technical Communication for Biomedical Engineers	W2	Report preparation, business correspondence, and oral presentation in biomedical engineering specific cases and projects. Credit will be granted for only one of BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BMEG_V 210-101	BMEG_V	210	101	Thermodynamics in Biomedical Engineering	W1	Work, heat and energy; material and energy balances; the first law and second law of thermodynamics; entropy and process reversibility; availability (energy) analysis; Hess's Law; thermodynamic properties of fluids; and applications to biomedical systems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: PHYS 157. CHEM 123 is recommended	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BMEG_V 210-T1A	BMEG_V	210	T1A	Thermodynamics in Biomedical Engineering	W1	Work, heat and energy; material and energy balances; the first law and second law of thermodynamics; entropy and process reversibility; availability (energy) analysis; Hess's Law; thermodynamic properties of fluids; and applications to biomedical systems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: PHYS 157. CHEM 123 is recommended	In Person Learning	Tue	5:00 p.m. - 7:00 p.m.
BMEG_V 220-201	BMEG_V	220	201	Circuits and Electromagnetics with Application to Biomedical Engineering	W2	Electromagnetic phenomena in the body; bioinstrumentation; electrostatic and electromagnetic fields, forces, capacitance and inductance; bio-effects of electromagnetic fields; and modelling electrical components of physiological and biomedical systems. This course is not eligible for Credit/D/Fail grading. [4-0-2*] Prerequisite: All of PHYS 158, MATH 253, MATH 256. Corequisite: MATH 264.	In Person Learning	Tue Thu Fri	2:00 p.m. - 3:00 p.m.
BMEG_V 220-T2A	BMEG_V	220	T2A	Circuits and Electromagnetics with Application to Biomedical Engineering	W2	Electromagnetic phenomena in the body; bioinstrumentation; electrostatic and electromagnetic fields, forces, capacitance and inductance; bio-effects of electromagnetic fields; and modelling electrical components of physiological and biomedical systems. This course is not eligible for Credit/D/Fail grading. [4-0-2*] Prerequisite: All of PHYS 158, MATH 253, MATH 256. Corequisite: MATH 264.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 4:00 p.m.
BMEG_V 230-101	BMEG_V	230	101	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
BMEG_V 230-L1A	BMEG_V	230	L1A	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Tue (Alternate weeks)	3:00 p.m. - 5:00 p.m.
BMEG_V 230-L1B	BMEG_V	230	L1B	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 4:00 p.m.
BMEG_V 230-L1C	BMEG_V	230	L1C	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Thu (Alternate weeks)	11:00 a.m. - 1:00 p.m.
BMEG_V 230-L1D	BMEG_V	230	L1D	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Tue (Alternate weeks)	1:00 p.m. - 3:00 p.m.
BMEG_V 230-L1E	BMEG_V	230	L1E	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Thu (Alternate weeks)	4:30 p.m. - 6:30 p.m.
BMEG_V 230-T1A	BMEG_V	230	T1A	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Tue (Alternate weeks)	3:00 p.m. - 5:00 p.m.

BMEG_V 230-T1B	BMEG_V	230	T1B	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 4:00 p.m.
BMEG_V 230-T1C	BMEG_V	230	T1C	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Thu (Alternate weeks)	11:00 a.m. - 1:00 p.m.
BMEG_V 230-T1D	BMEG_V	230	T1D	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Tue (Alternate weeks)	1:00 p.m. - 3:00 p.m.
BMEG_V 230-T1E	BMEG_V	230	T1E	Biomechanics I	W1	Integrating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHYS 170.	In Person Learning	Thu (Alternate weeks)	4:30 p.m. - 6:30 p.m.
BMEG_V 245-101	BMEG_V	245	101	The Fundamental Units of Life: From Cells To Systems	W1	The structure and function of cells and how they are organized to generate tissues and organ systems [3-3*-0] Prerequisite: One of CHEM 12, CHEM 100. BIOL 12 strongly recommended	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
BMEG_V 245-L1A	BMEG_V	245	L1A	The Fundamental Units of Life: From Cells To Systems	W1	The structure and function of cells and how they are organized to generate tissues and organ systems [3-3*-0] Prerequisite: One of CHEM 12, CHEM 100. BIOL 12 strongly recommended	In Person Learning	Thu (Alternate weeks)	1:30 p.m. - 4:30 p.m.
BMEG_V 245-L1B	BMEG_V	245	L1B	The Fundamental Units of Life: From Cells To Systems	W1	The structure and function of cells and how they are organized to generate tissues and organ systems [3-3*-0] Prerequisite: One of CHEM 12, CHEM 100. BIOL 12 strongly recommended	In Person Learning	Thu (Alternate weeks)	1:30 p.m. - 4:30 p.m.
BMEG_V 245-L1C	BMEG_V	245	L1C	The Fundamental Units of Life: From Cells To Systems	W1	The structure and function of cells and how they are organized to generate tissues and organ systems [3-3*-0] Prerequisite: One of CHEM 12, CHEM 100. BIOL 12 strongly recommended	In Person Learning	Wed (Alternate weeks)	4:00 p.m. - 7:00 p.m.
BMEG_V 245-L1D	BMEG_V	245	L1D	The Fundamental Units of Life: From Cells To Systems	W1	The structure and function of cells and how they are organized to generate tissues and organ systems [3-3*-0] Prerequisite: One of CHEM 12, CHEM 100. BIOL 12 strongly recommended	In Person Learning	Wed (Alternate weeks)	4:00 p.m. - 7:00 p.m.
BMEG_V 250-201	BMEG_V	250	201	Cellular Physiology and Biophysics	W2	Cellular structure and mechanisms of membrane transport, signal transduction, muscle mechanochemistry and neurotransmission. Structure and hierarchical organization up to the level of tissues. Light and electron microscopy. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: All of BMEG 245, MATH 256.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BMEG_V 250-L2A	BMEG_V	250	L2A	Cellular Physiology and Biophysics	W2	Cellular structure and mechanisms of membrane transport, signal transduction, muscle mechanochemistry and neurotransmission. Structure and hierarchical organization up to the level of tissues. Light and electron microscopy. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: All of BMEG 245, MATH 256.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
BMEG_V 257-201	BMEG_V	257	201	Biomedical Engineering Design I	W2	Engineering design process for biomedical technologies. Practical skills in engineering design, computer aided design, electronic circuits, programming, and rapid prototyping in the context of biomedical technologies. Introduction to broader ethical and sustainability considerations for biomedical technology design. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: Either (a) all of BMEG 101, BMEG 102 or (b) all of APSC 101, BMEG 200, PHYS 159.	In Person Learning	Tue Thu	8:00 a.m. - 9:00 a.m.
BMEG_V 257-S2A	BMEG_V	257	S2A	Biomedical Engineering Design I	W2	Engineering design process for biomedical technologies. Practical skills in engineering design, computer aided design, electronic circuits, programming, and rapid prototyping in the context of biomedical technologies. Introduction to broader ethical and sustainability considerations for biomedical technology design. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: Either (a) all of BMEG 101, BMEG 102 or (b) all of APSC 101, BMEG 200, PHYS 159.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
BMEG_V 310-101	BMEG_V	310	101	Introduction to Bioinformatics	W1	Principles behind the methods of bioinformatics. The use of bioinformatics databases and tools for solving problems in genomics, proteomics, structural biology and evolutionary biology. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: BMEG 245 and one of CPEN 221, CPEN 223.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BMEG_V 310-T1A	BMEG_V	310	T1A	Introduction to Bioinformatics	W1	Principles behind the methods of bioinformatics. The use of bioinformatics databases and tools for solving problems in genomics, proteomics, structural biology and evolutionary biology. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: BMEG 245 and one of CPEN 221, CPEN 223.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
BMEG_V 320-201	BMEG_V	320	201	Bioengineering Feedback Systems and Controls	W2	Modelling, analysis and simulation of dynamic systems; system modelling by state space; linearization; feedback, stability and sensitivity; control system design. Examples from biological systems, assistive systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) BMEG 220 or (b) all of ELEC 221, ELEC 201, ELEC 202.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
BMEG_V 320-T2A	BMEG_V	320	T2A	Bioengineering Feedback Systems and Controls	W2	Modelling, analysis and simulation of dynamic systems; system modelling by state space; linearization; feedback, stability and sensitivity; control system design. Examples from biological systems, assistive systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) BMEG 220 or (b) all of ELEC 221, ELEC 201, ELEC 202.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.

BMEG_V 321-201	BMEG_V	321	201	Biomedical Instrumentation	W2	Fundamental working principles of medical instruments used for measurements of nervous, respiratory and circulatory systems with focus on biopotential signals. Other topics include medical imaging, as well as minimally invasive and robotic surgery. Credit will only be granted for one of BMEG 321, ELEC 371. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267; and either (a) BMEG 220 or (b) one of ELEC 211, PHYS 301 and one of ELEC 201, ELEC 204.	In Person Learning	Mon Fri	9:00 a.m. - 10:00 a.m.
BMEG_V 321-L2A	BMEG_V	321	L2A	Biomedical Instrumentation	W2	Fundamental working principles of medical instruments used for measurements of nervous, respiratory and circulatory systems with focus on biopotential signals. Other topics include medical imaging, as well as minimally invasive and robotic surgery. Credit will only be granted for one of BMEG 321, ELEC 371. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267; and either (a) BMEG 220 or (b) one of ELEC 211, PHYS 301 and one of ELEC 201, ELEC 204.	In Person Learning	Tue	11:30 a.m. - 2:30 p.m.
BMEG_V 321-L2B	BMEG_V	321	L2B	Biomedical Instrumentation	W2	Fundamental working principles of medical instruments used for measurements of nervous, respiratory and circulatory systems with focus on biopotential signals. Other topics include medical imaging, as well as minimally invasive and robotic surgery. Credit will only be granted for one of BMEG 321, ELEC 371. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267; and either (a) BMEG 220 or (b) one of ELEC 211, PHYS 301 and one of ELEC 201, ELEC 204.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
BMEG_V 321-L2C	BMEG_V	321	L2C	Biomedical Instrumentation	W2	Fundamental working principles of medical instruments used for measurements of nervous, respiratory and circulatory systems with focus on biopotential signals. Other topics include medical imaging, as well as minimally invasive and robotic surgery. Credit will only be granted for one of BMEG 321, ELEC 371. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267; and either (a) BMEG 220 or (b) one of ELEC 211, PHYS 301 and one of ELEC 201, ELEC 204.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BMEG_V 321-L2D	BMEG_V	321	L2D	Biomedical Instrumentation	W2	Fundamental working principles of medical instruments used for measurements of nervous, respiratory and circulatory systems with focus on biopotential signals. Other topics include medical imaging, as well as minimally invasive and robotic surgery. Credit will only be granted for one of BMEG 321, ELEC 371. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267; and either (a) BMEG 220 or (b) one of ELEC 211, PHYS 301 and one of ELEC 201, ELEC 204.	In Person Learning	Mon	4:00 p.m. - 7:00 p.m.
BMEG_V 321-L2E	BMEG_V	321	L2E	Biomedical Instrumentation	W2	Fundamental working principles of medical instruments used for measurements of nervous, respiratory and circulatory systems with focus on biopotential signals. Other topics include medical imaging, as well as minimally invasive and robotic surgery. Credit will only be granted for one of BMEG 321, ELEC 371. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267; and either (a) BMEG 220 or (b) one of ELEC 211, PHYS 301 and one of ELEC 201, ELEC 204.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
BMEG_V 330-201	BMEG_V	330	201	Biomechanics II	W2	Principles and common elements of sports-, orthopaedic-, injury- and cellular length-biomechanics. Improving sports performance and preventing overuse injuries through sports biomechanics, designing orthopaedic implants through orthopaedic biomechanics, preventing injuries through injury biomechanics and identifying and filtering cancerous blood cells through cellular biomechanics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: BMEG 230.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BMEG_V 330-T2A	BMEG_V	330	T2A	Biomechanics II	W2	Principles and common elements of sports-, orthopaedic-, injury- and cellular length-biomechanics. Improving sports performance and preventing overuse injuries through sports biomechanics, designing orthopaedic implants through orthopaedic biomechanics, preventing injuries through injury biomechanics and identifying and filtering cancerous blood cells through cellular biomechanics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: BMEG 230.	In Person Learning	Mon (Alternate weeks)	10:00 a.m. - 12:00 p.m.
BMEG_V 350-201	BMEG_V	350	201	Human Structure/Function from Cells to Systems	W2	Human anatomy, histology and physiology with examples from biomedical engineering. Anatomical compartmentation and function regulation; homeostatic control systems, sensors and effectors; intercellular communication strategies; and cellular and organ function assessment. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: All of BMEG 245, BMEG 250.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
BMEG_V 350-L2A	BMEG_V	350	L2A	Human Structure/Function from Cells to Systems	W2	Human anatomy, histology and physiology with examples from biomedical engineering. Anatomical compartmentation and function regulation; homeostatic control systems, sensors and effectors; intercellular communication strategies; and cellular and organ function assessment. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: All of BMEG 245, BMEG 250.	In Person Learning	Wed (Alternate weeks)	10:00 a.m. - 12:00 p.m.
BMEG_V 357-201	BMEG_V	357	201	Biomedical Engineering Design II	W2	Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [3*-3*-0] Prerequisite: BMEG 257.	In Person Learning	Tue	3:30 p.m. - 5:00 p.m.
BMEG_V 357-S2A	BMEG_V	357	S2A	Biomedical Engineering Design II	W2	Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [3*-3*-0] Prerequisite: BMEG 257.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 5:00 p.m.
BMEG_V 357-S2B	BMEG_V	357	S2B	Biomedical Engineering Design II	W2	Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [3*-3*-0] Prerequisite: BMEG 257.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 5:00 p.m.
BMEG_V 371-101	BMEG_V	371	101	Transport Phenomena within Cells and Tissues	W1	Fluid flow and mass transport analysis within healthy and diseased cells and tissues using mathematics. Drug delivery and tissue engineering. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of MATH 253, MATH 217 and either (a) MATH 256 or (b) all of MATH 255, MATH 257. Equivalency: CHBE 470	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
BMEG_V 371-T1A	BMEG_V	371	T1A	Transport Phenomena within Cells and Tissues	W1	Fluid flow and mass transport analysis within healthy and diseased cells and tissues using mathematics. Drug delivery and tissue engineering. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of MATH 253, MATH 217 and either (a) MATH 256 or (b) all of MATH 255, MATH 257. Equivalency: CHBE 470	In Person Learning	Tue (Alternate weeks)	9:00 a.m. - 11:00 a.m.
BMEG_V 371-T1B	BMEG_V	371	T1B	Transport Phenomena within Cells and Tissues	W1	Fluid flow and mass transport analysis within healthy and diseased cells and tissues using mathematics. Drug delivery and tissue engineering. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of MATH 253, MATH 217 and either (a) MATH 256 or (b) all of MATH 255, MATH 257. Equivalency: CHBE 470	In Person Learning	Wed (Alternate weeks)	9:00 a.m. - 11:00 a.m.

BMEG_V 372-101	BMEG_V	372	101	Biomedical Materials and Drug Delivery	W1	Biomaterials science/engineering applied to design and synthesis of drug delivery systems. Biomaterial types, synthesis and testing; the use of biomaterials; biological response; biocompatibility and degradation; drug delivery systems; nanocarriers; modification of polymers; liposomes and micelles; nucleic acid, transdermal and oral delivery. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of BMEG 250, CHEM 123.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
BMEG_V 372-T1A	BMEG_V	372	T1A	Biomedical Materials and Drug Delivery	W1	Biomaterials science/engineering applied to design and synthesis of drug delivery systems. Biomaterial types, synthesis and testing; the use of biomaterials; biological response; biocompatibility and degradation; drug delivery systems; nanocarriers; modification of polymers; liposomes and micelles; nucleic acid, transdermal and oral delivery. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of BMEG 250, CHEM 123.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
BMEG_V 373-101	BMEG_V	373	101	Microfluidics	W1	Advantages and disadvantages of miniaturization of complex fluid flow processes. Manipulating liquid flow; electrophoretic velocity and mobility; serial dilution; capillary electrophoresis; integrated microfluidic platforms; and blood and the motility of bacteria. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHBE 251.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BMEG_V 374-201	BMEG_V	374	201	Cellular Bioengineering: Laboratory & Design	W2	Fundamental genetic, molecular, and tissue engineering techniques. Design of experiments and tools related to these essential cellular bioengineering techniques. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
BMEG_V 374-L2A	BMEG_V	374	L2A	Cellular Bioengineering: Laboratory & Design	W2	Fundamental genetic, molecular, and tissue engineering techniques. Design of experiments and tools related to these essential cellular bioengineering techniques. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
BMEG_V 374-L2B	BMEG_V	374	L2B	Cellular Bioengineering: Laboratory & Design	W2	Fundamental genetic, molecular, and tissue engineering techniques. Design of experiments and tools related to these essential cellular bioengineering techniques. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.	In Person Learning	Mon	4:00 p.m. - 7:00 p.m.
BMEG_V 374-T2A	BMEG_V	374	T2A	Cellular Bioengineering: Laboratory & Design	W2	Fundamental genetic, molecular, and tissue engineering techniques. Design of experiments and tools related to these essential cellular bioengineering techniques. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
BMEG_V 400-J_201	BMEG_V	400	J	J_201	W2	Lectures or projects on specialized topics in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BMEG_V 400-K_201	BMEG_V	400	K	K_201	W2	Lectures or projects on specialized topics in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BMEG_V 400-L_201	BMEG_V	400	L	L_201	W2	Lectures or projects on specialized topics in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
BMEG_V 400-Q_201	BMEG_V	400	Q	Q_201	W2	Lectures or projects on specialized topics in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
BMEG_V 401-201	BMEG_V	401	201	Economics of Healthcare Solutions	W2	Canadian and USA engineering economics in BME and healthcare systems. Economic equivalence, cost estimation, risk assessment, regulatory frameworks, economic optimization, intangible factors, ethics, sustainability, financial tools, commercialization and regulator regimes. [3-0-0]	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
BMEG_V 401-202	BMEG_V	401	202	Economics of Healthcare Solutions	W2	Canadian and USA engineering economics in BME and healthcare systems. Economic equivalence, cost estimation, risk assessment, regulatory frameworks, economic optimization, intangible factors, ethics, sustainability, financial tools, commercialization and regulator regimes. [3-0-0]	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
BMEG_V 402-101	BMEG_V	402	101	Impact of Biomedical Engineering on Society, Sustainability and Environmental Stewardship	W1	Impact of biomedical engineering on health, safety, and political, cultural, economical and environmental implications of biomedical engineering design. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BMEG_V 402-201	BMEG_V	402	201	Impact of Biomedical Engineering on Society, Sustainability and Environmental Stewardship	W2	Impact of biomedical engineering on health, safety, and political, cultural, economical and environmental implications of biomedical engineering design. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 410-101	BMEG_V	410	101	Biomedical Equipment, Physiology, and Anatomy	W1	Principles and operation of biomedical equipment for cardiovascular system, respiratory system, renal dialysis, endoscopy, surgery, and imaging. Functional relationships of biomedical equipment to physiology and anatomy of major body systems. Credit will be granted for only one of BMEG 410 or BMEG 510. [3-0-2*]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BMEG_V 410-T1A	BMEG_V	410	T1A	Biomedical Equipment, Physiology, and Anatomy	W1	Principles and operation of biomedical equipment for cardiovascular system, respiratory system, renal dialysis, endoscopy, surgery, and imaging. Functional relationships of biomedical equipment to physiology and anatomy of major body systems. Credit will be granted for only one of BMEG 410 or BMEG 510. [3-0-2*]	In Person Learning	Thu	5:00 p.m. - 7:00 p.m.
BMEG_V 420-101	BMEG_V	420	101	Medical Imaging	W1	Physical principles of ultrasound, magnetic resonance, computed tomography, X-ray projection imaging and molecular imaging in medical imaging for diagnostics, therapeutics and interventions. [3-0-0] Prerequisite: One of BMEG 220, BMEG 250 and one of BMEG 321, ELEC 371. Equivalency: ELEC 471	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
BMEG_V 421-101	BMEG_V	421	101	Linear Systems in Optics	W1	Linear system theory and Fourier Optics, applications in optics including wave propagation and image quality assessment. Credit will be granted for only one of BMEG 421 or BMEG 521. This course is not eligible for Credit/D/Fail grading. Prerequisite: ELEC 221.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BMEG_V 422-201	BMEG_V	422	201	Modern Biomedical Optical Imaging	W2	Advanced multimodal optical imaging concepts, fundamental optics, optical OCT theories, advanced modern OCT technologies, and OCT application in clinical medicine and biomedical engineering. Credit will be granted for only one of BMEG 422 or BMEG 522. This course is not eligible for Credit/D/Fail grading. Prerequisite: BMEG 421.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BMEG_V 423-101	BMEG_V	423	101	Clinical Informatics	W1	Fundamental concepts in clinical information systems, decision support, and mobile health. Application of information engineering to health care, including the management and use of patient health and well-being information. Credit will be granted for only one of BMEG 423 or BMEG 523. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.

BMEG_V 424-201	BMEG_V	424	201	Genome Informatics	W2	Principles and best practices in analyzing genomics data. Genome architecture, mappability, repeat elements, ChIP-seq, open chromatin, histone modifications, single cell technologies, genome wide association studies, statistical analyses, computational analysis, data processing. Credit will be granted for only one of BMEG 424 or BMEG 524. This course is not eligible for Credit/D/Fail grading. Prerequisite: BMEG 310. or equivalent.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BMEG_V 425-201	BMEG_V	425	201	Biomedical Robotics	W2	Biomedical robotics, mathematical fundamentals of kinematics, dynamics and control of robots by human operators, and applications of biomedical robotics. This course is not eligible for Credit/D/Fail grading. Prerequisite: MATH 152 and one of BMEG 320, ELEC 221.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
BMEG_V 455-101	BMEG_V	455	101	Professionalism and Ethics in Biomedical Engineering	W1	Ethical, equity, and diversity issues and professionalism in Biomedical Engineering practice and design. Case studies and design projects will be used to expand on the foundation of biomedical engineering design, applying real-world ethical dilemmas including professional, medical, and research ethics. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
BMEG_V 456-101	BMEG_V	456	101	Clinical and Industrial Biomedical Engineering	W1	Principles of clinical practice, Canadian healthcare system, medical approach to diagnosis, ethics and regulations for clinical trials, medical technology management, medical device development and standards, biostatistics. Credit will be granted for only one of BMEG 257, BMEG 456, BMEG 556. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon	4:00 p.m. - 7:00 p.m.
BMEG_V 457-001	BMEG_V	457	001	Biomedical Engineering Design Project	W1-2	Capstone design and development of a practical biomedical device or system. Projects provided by local industry and engineering research laboratories. [1-3-1; 1-3-1] Prerequisite: All of BMEG 350, BMEG 357.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
BMEG_V 457-S0A	BMEG_V	457	S0A	Biomedical Engineering Design Project	W1-2	Capstone design and development of a practical biomedical device or system. Projects provided by local industry and engineering research laboratories. [1-3-1; 1-3-1] Prerequisite: All of BMEG 350, BMEG 357.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
BMEG_V 470-201	BMEG_V	470	201	Cellular Responses to Forces and Biomaterials	W2	Mechanical forces and biomaterials regulating cellular functions critical to tissue development, regeneration and repair. [3-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 350.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BMEG_V 474-201	BMEG_V	474	201	Stem Cells and Regenerative Medicine	W2	Biology and applications of stem cells in regenerative medicine. Modelling human biology and disease in vitro and in vivo. Regulatory and commercialization pathways for regenerative medicine innovations. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 350.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BMEG_V 490-A 201	BMEG_V	490	A	A 201	W2	Introduction to Academic Research	In Person Learning	Tue	8:30 a.m. - 10:00 a.m.
BMEG_V 490-B 001	BMEG_V	490	B	B 001	W1-2	Introduction to Academic Research	In Person Learning	Arranged	Arranged
BMEG_V 495-201	BMEG_V	495	201	Biomaterials	W2	Engineered materials in medical applications with an emphasis on material properties, functionality, design, and material response in the biological environment. Credit will be granted for only one of MTRL 495 or BMEG 495. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: APSC 278.	In Person Learning	Wed Fri	1:00 p.m. - 2:00 p.m.
BMEG_V 495-T2A	BMEG_V	495	T2A	Biomaterials	W2	Engineered materials in medical applications with an emphasis on material properties, functionality, design, and material response in the biological environment. Credit will be granted for only one of MTRL 495 or BMEG 495. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: APSC 278.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
BMEG_V 500-101	BMEG_V	500	101	Orientation to Clinical Environment	W1	Operation of biomedical and clinical engineering facilities at hospitals. Daily activities of healthcare workers. Patients experience. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	8:00 a.m. - 10:00 a.m.
BMEG_V 500-T1A	BMEG_V	500	T1A	Orientation to Clinical Environment	W1	Operation of biomedical and clinical engineering facilities at hospitals. Daily activities of healthcare workers. Patients experience. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 10:00 a.m.
BMEG_V 501-001	BMEG_V	501	001	Interdisciplinary Team Project in Medical Technology Innovation	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	8:00 a.m. - 10:00 a.m.
BMEG_V 510-101	BMEG_V	510	101	Anatomy and Physiology with Applications to Biomedical Devices	W1	Anatomical structures and physiological principles of major body systems. Functional connections to operation of diagnostic and therapeutic equipment. Exploration of recent advances. Credit will be granted for only one of BMEG 410 or BMEG 510. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
BMEG_V 510-T1A	BMEG_V	510	T1A	Anatomy and Physiology with Applications to Biomedical Devices	W1	Anatomical structures and physiological principles of major body systems. Functional connections to operation of diagnostic and therapeutic equipment. Exploration of recent advances. Credit will be granted for only one of BMEG 410 or BMEG 510. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 7:00 p.m.
BMEG_V 511-201	BMEG_V	511	201	Fundamentals of Applied Pathophysiology in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:30 p.m. - 8:30 p.m.
BMEG_V 521-101	BMEG_V	521	101	Linear Systems in Optics	W1	Linear system theory and Fourier Optics, applications in optics including wave propagation and image quality assessment. Credit will be granted for only one of BMEG 421 or BMEG 521. ELEC 221 recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BMEG_V 522-201	BMEG_V	522	201	Modern Biomedical Optical Imaging	W2	Advanced multimodal optical imaging concepts, fundamental optics, optical OCT theories, advanced modern OCT technologies, and OCT application in clinical medicine and biomedical engineering. Credit will be granted for only one of BMEG 422 or BMEG 522. BMEG 421 or courses with MATLAB recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BMEG_V 523-101	BMEG_V	523	101	Clinical Informatics	W1	Fundamental concepts in clinical information systems, decision support, and mobile health. Application of information engineering to health care, including the management and use of patient health and well-being information. Credit will be granted for only one of BMEG 423 or BMEG 523.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.

BMEG_V 523-T1A	BMEG_V	523		T1A	Clinical Informatics	W1	Fundamental concepts in clinical information systems, decision support, and mobile health. Application of information engineering to health care, including the management and use of patient health and well-being information. Credit will be granted for only one of BMEG 423 or BMEG 523.	In Person Learning	Tue	6:30 p.m. - 7:30 p.m.
BMEG_V 524-201	BMEG_V	524		201	Genome Informatics	W2	Principles and best practices in analyzing genomics data. Genome architecture, mappability, repeat elements, ChIP-seq, open chromatin, histone modifications, single cell technologies, genome wide association studies, statistical analyses, computational analysis, data processing. Credit will be granted for only one of BMEG 424 or BMEG 524. BMEG 310 or equivalent recommended.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
BMEG_V 550-201	BMEG_V	550		201	Biomedical Engineering Technology	W2	This course is not eligible for Credit/D/Fail grading. [3-3*-0]	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
BMEG_V 554-A_101	BMEG_V	554	A	A_101	Directed Studies in Biomedical Engineering	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 554-A_201	BMEG_V	554	A	A_201	Directed Studies in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 554-B_001	BMEG_V	554	B	B_001	Directed Studies in Biomedical Engineering	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 554-B_101	BMEG_V	554	B	B_101	Directed Studies in Biomedical Engineering	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 554-B_201	BMEG_V	554	B	B_201	Directed Studies in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 554-C_101	BMEG_V	554	C	C_101	Directed Studies in Biomedical Engineering	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 554-C_201	BMEG_V	554	C	C_201	Directed Studies in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 556-101	BMEG_V	556		101	Clinical and Industrial Biomedical Engineering	W1	Principles of professional engineering practice, the Canadian healthcare system, medical approach to diagnosis, principles and management of common medical devices, ethics and regulations for clinical trials, codes and regulations of medical devices, applications of biomedical engineering. Credit will be granted for only one of BMEG 456 or BMEG 556. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 7:00 p.m.
BMEG_V 556-T1A	BMEG_V	556		T1A	Clinical and Industrial Biomedical Engineering	W1	Principles of professional engineering practice, the Canadian healthcare system, medical approach to diagnosis, principles and management of common medical devices, ethics and regulations for clinical trials, codes and regulations of medical devices, applications of biomedical engineering. Credit will be granted for only one of BMEG 456 or BMEG 556. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	7:00 p.m. - 8:00 p.m.
BMEG_V 557-101	BMEG_V	557		101	Statistical Methods for Evaluating Medical Technologies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
BMEG_V 580-101	BMEG_V	580		101	Biomedical Engineering Topics at the Interface of Medicine and Engineering	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
BMEG_V 581-201	BMEG_V	581		201	Professional and Academic Development	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
BMEG_V 591-F_201	BMEG_V	591	F	F_201	Topics in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BMEG_V 591-J_201	BMEG_V	591	J	J_201	Topics in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
BMEG_V 591-K_201	BMEG_V	591	K	K_201	Topics in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BMEG_V 591-L_201	BMEG_V	591	L	L_201	Topics in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
BMEG_V 591-N_101	BMEG_V	591	N	N_101	Topics in Biomedical Engineering	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:00 p.m. - 7:30 p.m.
BMEG_V 591-Q_201	BMEG_V	591	Q	Q_201	Topics in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
BMEG_V 591-T_201	BMEG_V	591	T	T_201	Topics in Biomedical Engineering	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:00 p.m. - 7:30 p.m.

BMEG_V 597-001	BMEG_V	597	001	Master of Engineering Project	W1-2	Supervised industrial, clinical, or research project for students registered in Biomedical Engineering program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BMEG_V 597-101	BMEG_V	597	101	Master of Engineering Project	W1	Supervised industrial, clinical, or research project for students registered in Biomedical Engineering program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BMEG_V 597-201	BMEG_V	597	201	Master of Engineering Project	W2	Supervised industrial, clinical, or research project for students registered in Biomedical Engineering program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BMEG_V 598-001	BMEG_V	598	001	Biomedical Engineering Seminar	W1-2	Presentation and discussion of current topics in biomedical engineering research and development. A required course for all graduate students in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.	
BMEG_V 598-101	BMEG_V	598	101	Biomedical Engineering Seminar	W1	Presentation and discussion of current topics in biomedical engineering research and development. A required course for all graduate students in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.	
BMEG_V 598-201	BMEG_V	598	201	Biomedical Engineering Seminar	W2	Presentation and discussion of current topics in biomedical engineering research and development. A required course for all graduate students in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.	
BMEG_V 599-001	BMEG_V	599	001	M.A. Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BMEG_V 599-101	BMEG_V	599	101	M.A. Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BMEG_V 599-201	BMEG_V	599	201	M.A. Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BMEG_V 699-001	BMEG_V	699	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
BMEG_V 699-101	BMEG_V	699	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
BMEG_V 699-201	BMEG_V	699	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
BOTA_V 501-101	BOTA_V	501	101	Seminar in Botany	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
BOTA_V 502-101	BOTA_V	502	101	Thesis Seminar	W1		In Person Learning	Arranged	Arranged	
BOTA_V 502-201	BOTA_V	502	201	Thesis Seminar	W2		In Person Learning	Arranged	Arranged	
BOTA_V 528-101	BOTA_V	528	101	Current Topics in Plant Biochemistry	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BOTA_V 528-201	BOTA_V	528	201	Current Topics in Plant Biochemistry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:00 a.m. - 11:00 a.m.	
BOTA_V 544-101	BOTA_V	544	101	Plant Molecular Biology Laboratory	W1	Admission to the course is limited and requires recommendation from the Head of Botany or the Director of the Biotechnology Laboratory. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOL 335 is recommended as either a prerequisite or corequisite. Equivalency: PLNT540, FRST503	In Person Learning	Thu	10:00 a.m. - 4:00 p.m.	
BOTA_V 546-A_001	BOTA_V	546	A	A_001	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-A_101	BOTA_V	546	A	A_101	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-A_201	BOTA_V	546	A	A_201	Topics in Botany	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-A_L01	BOTA_V	546	A	A_L01	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-A_L02	BOTA_V	546	A	A_L02	Topics in Botany	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

BOTA_V 546-A_L03	BOTA_V	546	A	A_L03	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-C_003	BOTA_V	546	C	C_003	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-C_103	BOTA_V	546	C	C_103	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-C_203	BOTA_V	546	C	C_203	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-D_001	BOTA_V	546	D	D_001	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-D_L01	BOTA_V	546	D	D_L01	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-F_001	BOTA_V	546	F	F_001	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-F_101	BOTA_V	546	F	F_101	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-F_201	BOTA_V	546	F	F_201	Topics in Botany	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-F_L01	BOTA_V	546	F	F_L01	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-F_L02	BOTA_V	546	F	F_L02	Topics in Botany	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 546-F_L03	BOTA_V	546	F	F_L03	Topics in Botany	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
BOTA_V 549-001	BOTA_V	549		001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BOTA_V 549-101	BOTA_V	549		101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BOTA_V 549-201	BOTA_V	549		201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BOTA_V 649-001	BOTA_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
BOTA_V 649-101	BOTA_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
BOTA_V 649-201	BOTA_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
BRDG_V 500-001	BRDG_V	500		001	Thesis and Journal Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BRDG_V 501-001	BRDG_V	501		001	Research Development	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BRDG_V 590-001	BRDG_V	590		001	Internship	W1	4 months for M.Sc.	In Person Learning	Arranged	Arranged
BRDG_V 590-002	BRDG_V	590		002	Internship	W1-2	4 months for M.Sc.	In Person Learning	Arranged	Arranged
BRDG_V 600-001	BRDG_V	600		001	Thesis and Journal Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

BRDG_V 601-001	BRDG_V	601	001	Research Grant Development	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BRDG_V 690-001	BRDG_V	690	001	Internship	W1	8 months for Ph.D. students.	In Person Learning	Arranged	Arranged
BRDG_V 690-002	BRDG_V	690	002	Internship	W1-2	8 months for Ph.D. students.	In Person Learning	Arranged	Arranged
BUSI_V 100-001	BUSI_V	100	001	Micro Foundations of Real Estate Economics	W1	Basic principles of microeconomics and application to current economic problems.	Online Learning	Arranged	Arranged
BUSI_V 100-002	BUSI_V	100	002	Micro Foundations of Real Estate Economics	W2	Basic principles of microeconomics and application to current economic problems.	Online Learning	Arranged	Arranged
BUSI_V 100-02T	BUSI_V	100	02T	Micro Foundations of Real Estate Economics	W1-2	Basic principles of microeconomics and application to current economic problems.	In Person Learning	Arranged	Arranged
BUSI_V 101-001	BUSI_V	101	001	Capital Markets and Real Estate	W1	Basic principles of macroeconomics and application to current economic problems. Prerequisite: BUSI 100.	Online Learning	Arranged	Arranged
BUSI_V 101-002	BUSI_V	101	002	Capital Markets and Real Estate	W2	Basic principles of macroeconomics and application to current economic problems. Prerequisite: BUSI 100.	Online Learning	Arranged	Arranged
BUSI_V 101-01T	BUSI_V	101	01T	Capital Markets and Real Estate	W1	Basic principles of macroeconomics and application to current economic problems. Prerequisite: BUSI 100.	In Person Learning	Arranged	Arranged
BUSI_V 101-02T	BUSI_V	101	02T	Capital Markets and Real Estate	W1-2	Basic principles of macroeconomics and application to current economic problems. Prerequisite: BUSI 100.	In Person Learning	Arranged	Arranged
BUSI_V 111-001	BUSI_V	111	001	British Columbia Real Estate Law and Real Estate Ethics	W1	Canadian legal system and contract law and detailed aspects of real estate law as it applies in British Columbia.	Online Learning	Arranged	Arranged
BUSI_V 111-002	BUSI_V	111	002	British Columbia Real Estate Law and Real Estate Ethics	W2	Canadian legal system and contract law and detailed aspects of real estate law as it applies in British Columbia.	Online Learning	Arranged	Arranged
BUSI_V 112-001	BUSI_V	112	001	Canadian Real Property Law and Real Estate Ethics	W1	Canadian legal system and contract law and detailed aspects of real estate law as it applies across Canada.	Online Learning	Arranged	Arranged
BUSI_V 112-002	BUSI_V	112	002	Canadian Real Property Law and Real Estate Ethics	W2	Canadian legal system and contract law and detailed aspects of real estate law as it applies across Canada.	Online Learning	Arranged	Arranged
BUSI_V 121-001	BUSI_V	121	001	Foundations of Real Estate Mathematics	W1	Introduction to mathematics of real estate finance and statistical measures and methods and their application to practical real estate concepts.	Online Learning	Arranged	Arranged
BUSI_V 121-002	BUSI_V	121	002	Foundations of Real Estate Mathematics	W2	Introduction to mathematics of real estate finance and statistical measures and methods and their application to practical real estate concepts.	Online Learning	Arranged	Arranged
BUSI_V 221-001	BUSI_V	221	001	Real Estate Finance in a Canadian Context	W1	History, function and mechanics of Canadian mortgage markets. Prerequisite: [BUSI121]	Online Learning	Arranged	Arranged
BUSI_V 221-002	BUSI_V	221	002	Real Estate Finance in a Canadian Context	W2	History, function and mechanics of Canadian mortgage markets. Prerequisite: [BUSI121]	Online Learning	Arranged	Arranged
BUSI_V 291-101	BUSI_V	291	101	Application of Statistics in Business	W1	Methods and applications of statistics in business; data analysis, descriptive regression; data generation; sampling distributions; hypothesis testing; confidence intervals; two sample problems; inference in regression. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 291-102	BUSI_V	291	102	Application of Statistics in Business	W1	Methods and applications of statistics in business; data analysis, descriptive regression; data generation; sampling distributions; hypothesis testing; confidence intervals; two sample problems; inference in regression. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 291-201	BUSI_V	291	201	Application of Statistics in Business	W2	Methods and applications of statistics in business; data analysis, descriptive regression; data generation; sampling distributions; hypothesis testing; confidence intervals; two sample problems; inference in regression. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 291-202	BUSI_V	291	202	Application of Statistics in Business	W2	Methods and applications of statistics in business; data analysis, descriptive regression; data generation; sampling distributions; hypothesis testing; confidence intervals; two sample problems; inference in regression. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 293-101	BUSI_V	293	101	Introductory Financial Accounting	W1	Introduction to the construction and interpretation of financial reports prepared primarily for external use. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:30 p.m. - 9:30 p.m.

BUSI_V 293-102	BUSI_V	293	102	Introductory Financial Accounting	W1	Introduction to the construction and interpretation of financial reports prepared primarily for external use. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
BUSI_V 293-201	BUSI_V	293	201	Introductory Financial Accounting	W2	Introduction to the construction and interpretation of financial reports prepared primarily for external use. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 293-202	BUSI_V	293	202	Introductory Financial Accounting	W2	Introduction to the construction and interpretation of financial reports prepared primarily for external use. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu	12:00 p.m. - 1:30 p.m.
BUSI_V 294-101	BUSI_V	294	101	Introductory Management Accounting	W1	Introduction to the development and use of accounting information for management planning and control, and the development of cost information for financial reports. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 294-102	BUSI_V	294	102	Introductory Management Accounting	W1	Introduction to the development and use of accounting information for management planning and control, and the development of cost information for financial reports. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 294-201	BUSI_V	294	201	Introductory Management Accounting	W2	Introduction to the development and use of accounting information for management planning and control, and the development of cost information for financial reports. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 294-202	BUSI_V	294	202	Introductory Management Accounting	W2	Introduction to the development and use of accounting information for management planning and control, and the development of cost information for financial reports. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 295-101	BUSI_V	295	101	Business Economics	W1	Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BUSI_V 295-102	BUSI_V	295	102	Business Economics	W1	Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 295-103	BUSI_V	295	103	Business Economics	W1	Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 295-201	BUSI_V	295	201	Business Economics	W2	Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BUSI_V 295-202	BUSI_V	295	202	Business Economics	W2	Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 295-203	BUSI_V	295	203	Business Economics	W2	Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon	3:00 p.m. - 6:00 p.m.
BUSI_V 300-001	BUSI_V	300	001	Urban and Real Estate Economics	W1	Comprehensive treatment of urban and real estate economics; introduction to study of cities and real estate market; analytical microeconomic principles. Prerequisite: BUSI100,BUSI101	Online Learning	Arranged	Arranged
BUSI_V 300-002	BUSI_V	300	002	Urban and Real Estate Economics	W2	Comprehensive treatment of urban and real estate economics; introduction to study of cities and real estate market; analytical microeconomic principles. Prerequisite: BUSI100,BUSI101	Online Learning	Arranged	Arranged
BUSI_V 329-103	BUSI_V	329	103	Principles of Organizational Behaviour	W1	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
BUSI_V 329-202	BUSI_V	329	202	Principles of Organizational Behaviour	W2	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 6:30 p.m.
BUSI_V 330-001	BUSI_V	330	001	Foundations of Real Estate Appraisal	W1	Introduction to concepts and techniques for appraising the value of real estate. Recommended pre-requisite: BUSI 121.	Online Learning	Arranged	Arranged
BUSI_V 330-002	BUSI_V	330	002	Foundations of Real Estate Appraisal	W2	Introduction to concepts and techniques for appraising the value of real estate. Recommended pre-requisite: BUSI 121.	Online Learning	Arranged	Arranged
BUSI_V 330-01T	BUSI_V	330	01T	Foundations of Real Estate Appraisal	W1	Introduction to concepts and techniques for appraising the value of real estate. Recommended pre-requisite: BUSI 121.	In Person Learning	Arranged	Arranged
BUSI_V 330-02T	BUSI_V	330	02T	Foundations of Real Estate Appraisal	W1-2	Introduction to concepts and techniques for appraising the value of real estate. Recommended pre-requisite: BUSI 121.	In Person Learning	Arranged	Arranged
BUSI_V 331-001	BUSI_V	331	001	Real Estate Investment Analysis and Advanced Income Appraisal	W1	Valuation techniques for income real estate, including income method of appraisal, tax consequences of real property ownership, and portfolio analysis methodology. Prerequisite: All of BUSI 121, BUSI 330.	Online Learning	Arranged	Arranged
BUSI_V 331-002	BUSI_V	331	002	Real Estate Investment Analysis and Advanced Income Appraisal	W2	Valuation techniques for income real estate, including income method of appraisal, tax consequences of real property ownership, and portfolio analysis methodology. Prerequisite: All of BUSI 121, BUSI 330.	Online Learning	Arranged	Arranged

BUSI_V 335-101	BUSI_V	335	101	Information Systems	W1	Introduction to information technology related to business use: design, implementation, and application of information systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 335-102	BUSI_V	335	102	Information Systems	W1	Introduction to information technology related to business use: design, implementation, and application of information systems. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 335-201	BUSI_V	335	201	Information Systems	W2	Introduction to information technology related to business use: design, implementation, and application of information systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 335-202	BUSI_V	335	202	Information Systems	W2	Introduction to information technology related to business use: design, implementation, and application of information systems. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 344-001	BUSI_V	344	001	Statistical and Computer Applications in Valuation	W1	Explores creative, practical uses of statistical and computer applications in determining and analyzing real estate value. Through case studies and hands-on computer work, students will learn the fundamentals of exploratory data analysis and appraisal valuation modelling.	Online Learning	Arranged	Arranged
BUSI_V 344-002	BUSI_V	344	002	Statistical and Computer Applications in Valuation	W2	Explores creative, practical uses of statistical and computer applications in determining and analyzing real estate value. Through case studies and hands-on computer work, students will learn the fundamentals of exploratory data analysis and appraisal valuation modelling.	Online Learning	Arranged	Arranged
BUSI_V 352-001	BUSI_V	352	001	Case Studies in Residential Valuation	W1	Examines common issues that affect the practice of residential real estate valuation. Credit will be granted for only one of BUSI 352 or both BUSI 442 and BUSI 452. Prerequisite: BUSI 330. BUSI 121, BUSI 344 recommended.	Online Learning	Arranged	Arranged
BUSI_V 352-002	BUSI_V	352	002	Case Studies in Residential Valuation	W2	Examines common issues that affect the practice of residential real estate valuation. Credit will be granted for only one of BUSI 352 or both BUSI 442 and BUSI 452. Prerequisite: BUSI 330. BUSI 121, BUSI 344 recommended.	Online Learning	Arranged	Arranged
BUSI_V 353-101	BUSI_V	353	101	Intermediate Financial Accounting I	W1	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 353-102	BUSI_V	353	102	Intermediate Financial Accounting I	W1	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 353-201	BUSI_V	353	201	Intermediate Financial Accounting I	W2	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 353-202	BUSI_V	353	202	Intermediate Financial Accounting I	W2	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 354-101	BUSI_V	354	101	Cost Accounting	W1	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 294, BUSI 370.	In Person Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 354-102	BUSI_V	354	102	Cost Accounting	W1	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 294, BUSI 370.	Hybrid Learning	Tue Thu	12:00 p.m. - 1:30 p.m.
BUSI_V 354-201	BUSI_V	354	201	Cost Accounting	W2	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 294, BUSI 370.	In Person Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 354-202	BUSI_V	354	202	Cost Accounting	W2	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 294, BUSI 370.	Hybrid Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
BUSI_V 355-101	BUSI_V	355	101	Introduction to Income Tax	W1	A study of income tax from the standpoint of the individual and business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
BUSI_V 355-102	BUSI_V	355	102	Introduction to Income Tax	W1	A study of income tax from the standpoint of the individual and business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 355-201	BUSI_V	355	201	Introduction to Income Tax	W2	A study of income tax from the standpoint of the individual and business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 355-202	BUSI_V	355	202	Introduction to Income Tax	W2	A study of income tax from the standpoint of the individual and business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 370-101	BUSI_V	370	101	Business Finance	W1	An introduction to the basic principles of financial valuation and an examination of corporate enterprise decisions including working capital management; capital budgeting; capital structures and dividend policy. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 370-102	BUSI_V	370	102	Business Finance	W1	An introduction to the basic principles of financial valuation and an examination of corporate enterprise decisions including working capital management; capital budgeting; capital structures and dividend policy. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 370-201	BUSI_V	370	201	Business Finance	W2	An introduction to the basic principles of financial valuation and an examination of corporate enterprise decisions including working capital management; capital budgeting; capital structures and dividend policy. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.

BUSI_V 370-202	BUSI_V	370	202	Business Finance	W2	An introduction to the basic principles of financial valuation and an examination of corporate enterprise decisions including working capital management; capital budgeting; capital structures and dividend policy. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.	Hybrid Learning	Tue	6:30 p.m. - 9:30 p.m.	
BUSI_V 393-101	BUSI_V	393	101	Introduction to Business Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property, principles of agency, partnership, and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:30 p.m. - 9:30 p.m.	
BUSI_V 393-102	BUSI_V	393	102	Introduction to Business Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property, principles of agency, partnership, and company law. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Thu	6:30 p.m. - 9:30 p.m.	
BUSI_V 393-201	BUSI_V	393	201	Introduction to Business Law	W2	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property, principles of agency, partnership, and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:30 p.m. - 9:30 p.m.	
BUSI_V 393-202	BUSI_V	393	202	Introduction to Business Law	W2	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property, principles of agency, partnership, and company law. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Thu	6:30 p.m. - 9:30 p.m.	
BUSI_V 398-001	BUSI_V	398	001	Residential Property Guided Case Study	W1	The residential property appraisal process, focusing both on valuation techniques as well as general research and report writing skills.	Online Learning	Arranged	Arranged	
BUSI_V 398-002	BUSI_V	398	002	Residential Property Guided Case Study	W2	The residential property appraisal process, focusing both on valuation techniques as well as general research and report writing skills.	Online Learning	Arranged	Arranged	
BUSI_V 400-001	BUSI_V	400	001	Residential Property Analysis	W1	Underlying theory and techniques used in design, construction, and inspection of residential properties.	Online Learning	Arranged	Arranged	
BUSI_V 400-002	BUSI_V	400	002	Residential Property Analysis	W2	Underlying theory and techniques used in design, construction, and inspection of residential properties.	Online Learning	Arranged	Arranged	
BUSI_V 401-001	BUSI_V	401	001	Commercial Property Analysis	W1	Underlying theory and techniques used in the design and construction of commercial properties.	Online Learning	Arranged	Arranged	
BUSI_V 401-002	BUSI_V	401	002	Commercial Property Analysis	W2	Underlying theory and techniques used in the design and construction of commercial properties.	Online Learning	Arranged	Arranged	
BUSI_V 414-101	BUSI_V	414	101	Data Visualization and Business Analytics	W1	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 335.	In Person Learning	Mon	6:30 p.m. - 9:30 p.m.	
BUSI_V 414-102	BUSI_V	414	102	Data Visualization and Business Analytics	W1	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 335.	Hybrid Learning	Wed	3:00 p.m. - 6:00 p.m.	
BUSI_V 414-201	BUSI_V	414	201	Data Visualization and Business Analytics	W2	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 335.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.	
BUSI_V 414-202	BUSI_V	414	202	Data Visualization and Business Analytics	W2	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 335.	Hybrid Learning	Thu	6:30 p.m. - 9:30 p.m.	
BUSI_V 420-A_003	BUSI_V	420	A	A_003	W1	Integrated Business Leadership	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
BUSI_V 433-001	BUSI_V	433	001	Real Estate Business	W1	General business skills for real estate practitioners.	Online Learning	Arranged	Arranged	
BUSI_V 433-002	BUSI_V	433	002	Real Estate Business	W2	General business skills for real estate practitioners.	Online Learning	Arranged	Arranged	
BUSI_V 441-001	BUSI_V	441	001	Real Estate Management I	W1	Examines the day-to-day issues which affect the practice of property management. Prerequisite: BUSI 330. BUSI 331 recommended.	Online Learning	Arranged	Arranged	
BUSI_V 441-002	BUSI_V	441	002	Real Estate Management I	W2	Examines the day-to-day issues which affect the practice of property management. Prerequisite: BUSI 330. BUSI 331 recommended.	Online Learning	Arranged	Arranged	
BUSI_V 442-001	BUSI_V	442	001	Case Studies in Appraisal I	W1	Examines the day-to-day issues that affect the practice of real estate appraisal. Prerequisite: All of BUSI 121, BUSI 330, BUSI 331.	Online Learning	Arranged	Arranged	
BUSI_V 442-002	BUSI_V	442	002	Case Studies in Appraisal I	W2	Examines the day-to-day issues that affect the practice of real estate appraisal. Prerequisite: All of BUSI 121, BUSI 330, BUSI 331.	Online Learning	Arranged	Arranged	

BUSI_V 443-001	BUSI_V	443	001	Assessment Administration	W1	Introduces the practice of real property assessment, including the nature of the techniques used, the required duties of assessors, and how an assessment office is administrated. Recommended pre-requisite: BUSI 330	Online Learning	Arranged	Arranged
BUSI_V 443-002	BUSI_V	443	002	Assessment Administration	W2	Introduces the practice of real property assessment, including the nature of the techniques used, the required duties of assessors, and how an assessment office is administrated. Recommended pre-requisite: BUSI 330	Online Learning	Arranged	Arranged
BUSI_V 444-001	BUSI_V	444	001	Computer Aided Mass Property Assessment	W1	This course develops and applies the major techniques for valuing real property. Recommended pre-requisites: all of BUSI 121, BUSI 330, BUSI 443.	Online Learning	Arranged	Arranged
BUSI_V 444-002	BUSI_V	444	002	Computer Aided Mass Property Assessment	W2	This course develops and applies the major techniques for valuing real property. Recommended pre-requisites: all of BUSI 121, BUSI 330, BUSI 443.	Online Learning	Arranged	Arranged
BUSI_V 445-001	BUSI_V	445	001	Real Estate Development I	W1	Real estate development process from the project idea to the cursory feasibility stage. Steps in development planning, including analysis, design and evaluation. Evaluating development potential, land acquisition, and site planning. Prerequisite: All of BUSI 330, BUSI 331.	Online Learning	Arranged	Arranged
BUSI_V 445-002	BUSI_V	445	002	Real Estate Development I	W2	Real estate development process from the project idea to the cursory feasibility stage. Steps in development planning, including analysis, design and evaluation. Evaluating development potential, land acquisition, and site planning. Prerequisite: All of BUSI 330, BUSI 331.	Online Learning	Arranged	Arranged
BUSI_V 446-001	BUSI_V	446	001	Real Estate Development II	W1	Analysis of real estate development process with an examination of economic feasibility studies, approval processes, project financing, construction, project management, and marketing phases. Prerequisite: BUSI445	Online Learning	Arranged	Arranged
BUSI_V 446-002	BUSI_V	446	002	Real Estate Development II	W2	Analysis of real estate development process with an examination of economic feasibility studies, approval processes, project financing, construction, project management, and marketing phases. Prerequisite: BUSI445	Online Learning	Arranged	Arranged
BUSI_V 450-101	BUSI_V	450	101	Intermediate Financial Accounting II	W1	A continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 370. Corequisite: BUSI353	In Person Learning	Wed	6:30 p.m. - 9:30 p.m.
BUSI_V 450-102	BUSI_V	450	102	Intermediate Financial Accounting II	W1	A continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 370. Corequisite: BUSI353	Hybrid Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 450-201	BUSI_V	450	201	Intermediate Financial Accounting II	W2	A continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 370. Corequisite: BUSI353	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 450-202	BUSI_V	450	202	Intermediate Financial Accounting II	W2	A continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 370. Corequisite: BUSI353	Hybrid Learning	Mon	6:30 p.m. - 9:30 p.m.
BUSI_V 451-001	BUSI_V	451	001	Real Estate Management II	W1	Continuation of BUSI 441.	Online Learning	Arranged	Arranged
BUSI_V 451-002	BUSI_V	451	002	Real Estate Management II	W2	Continuation of BUSI 441.	Online Learning	Arranged	Arranged
BUSI_V 452-001	BUSI_V	452	001	Case Studies in Appraisal II	W1	Continuation of BUSI 442 This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
BUSI_V 452-002	BUSI_V	452	002	Case Studies in Appraisal II	W2	Continuation of BUSI 442 This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
BUSI_V 453-101	BUSI_V	453	101	Advanced Financial Accounting	W1	An examination of advanced financial accounting topics. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI450 Corequisite: BUSI450	In Person Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 453-102	BUSI_V	453	102	Advanced Financial Accounting	W1	An examination of advanced financial accounting topics. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI450 Corequisite: BUSI450	Hybrid Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 453-201	BUSI_V	453	201	Advanced Financial Accounting	W2	An examination of advanced financial accounting topics. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI450 Corequisite: BUSI450	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 453-202	BUSI_V	453	202	Advanced Financial Accounting	W2	An examination of advanced financial accounting topics. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI450 Corequisite: BUSI450	Hybrid Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 455-101	BUSI_V	455	101	Principles of Auditing	W1	Principles of internal control; audit evidence; sampling and testing; audit reports; standards and responsibilities of the external audit. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 353, BUSI 450.	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
BUSI_V 455-102	BUSI_V	455	102	Principles of Auditing	W1	Principles of internal control; audit evidence; sampling and testing; audit reports; standards and responsibilities of the external audit. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 353, BUSI 450.	Hybrid Learning	Tue	6:30 p.m. - 9:30 p.m.
BUSI_V 455-201	BUSI_V	455	201	Principles of Auditing	W2	Principles of internal control; audit evidence; sampling and testing; audit reports; standards and responsibilities of the external audit. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 353, BUSI 450.	In Person Learning	Mon	6:30 p.m. - 9:30 p.m.

BUSI_V 455-202	BUSI_V	455	202	Principles of Auditing	W2	Principles of internal control; audit evidence; sampling and testing; audit reports; standards and responsibilities of the external audit. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 353, BUSI 450.	Hybrid Learning	Wed	6:30 p.m. - 9:30 p.m.	
BUSI_V 460-001	BUSI_V	460	001	Critical Analysis and Forecasting in Real Estate	W1	Delves into two quantitative decision-making methodologies--decision analysis and forecasting--and explores them using a problem-solving framework. Prerequisite: BUSI 121. BUSI 331 and BUSI 444 are also recommended.	Online Learning	Arranged	Arranged	
BUSI_V 460-002	BUSI_V	460	002	Critical Analysis and Forecasting in Real Estate	W2	Delves into two quantitative decision-making methodologies--decision analysis and forecasting--and explores them using a problem-solving framework. Prerequisite: BUSI 121. BUSI 331 and BUSI 444 are also recommended.	Online Learning	Arranged	Arranged	
BUSI_V 465-101	BUSI_V	465	101	Marketing Management	W1	Basic considerations affecting the domestic and international marketing of goods and services. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 295.	In Person Learning	Arranged	Arranged	
BUSI_V 465-102	BUSI_V	465	102	Marketing Management	W1	Basic considerations affecting the domestic and international marketing of goods and services. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 295.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.	
BUSI_V 465-203	BUSI_V	465	203	Marketing Management	W2	Basic considerations affecting the domestic and international marketing of goods and services. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 295.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.	
BUSI_V 485-102	BUSI_V	485	102	Taxes and Decision Making	W1	Analysis of business and financial decisions in the presence of taxes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
BUSI_V 493-101	BUSI_V	493	101	Strategic Management in Business	W1	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 335, BUSI 353, BUSI 370, BUSI 393, BUSI 450.	In Person Learning	Wed	6:30 p.m. - 9:30 p.m.	
BUSI_V 493-102	BUSI_V	493	102	Strategic Management in Business	W1	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 335, BUSI 353, BUSI 370, BUSI 393, BUSI 450.	Hybrid Learning	Mon	6:30 p.m. - 9:30 p.m.	
BUSI_V 493-201	BUSI_V	493	201	Strategic Management in Business	W2	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 335, BUSI 353, BUSI 370, BUSI 393, BUSI 450.	In Person Learning	Wed	6:30 p.m. - 9:30 p.m.	
BUSI_V 493-202	BUSI_V	493	202	Strategic Management in Business	W2	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 335, BUSI 353, BUSI 370, BUSI 393, BUSI 450.	Hybrid Learning	Thu	6:30 p.m. - 9:30 p.m.	
BUSI_V 497-001	BUSI_V	497	001	Guided Case Study in Agricultural Real Estate	W1-2	An agriculturally-focused version of BUSI 499. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.	Online Learning	Arranged	Arranged	
BUSI_V 497-002	BUSI_V	497	002	Guided Case Study in Agricultural Real Estate	W1-2	An agriculturally-focused version of BUSI 499. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.	Online Learning	Arranged	Arranged	
BUSI_V 499-A_001	BUSI_V	499	A	A_001	Income Property Guided Case Study	W1-2	The income property appraisal process, focusing both on valuation techniques as well as general research and report writing skills. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.	Online Learning	Arranged	Arranged
BUSI_V 499-A_002	BUSI_V	499	A	A_002	Income Property Guided Case Study	W2	The income property appraisal process, focusing both on valuation techniques as well as general research and report writing skills. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.	Online Learning	Arranged	Arranged
CAP_V 100-E01	CAP_V	100	E01	Introduction to Writing and Research in the Social Sciences and the Humanities	W1	Analysis of and practice in academic research and writing in the social sciences and the humanities. Restricted to students in the Coordinated Arts Program. Credits count toward the Writing Component of the Faculty of Arts Writing and Research Requirement. Credit will be granted for only one of CAP 100 or ASTU 101. Equivalency: ASTU 101.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
CAP_V 100-E02	CAP_V	100	E02	Introduction to Writing and Research in the Social Sciences and the Humanities	W1	Analysis of and practice in academic research and writing in the social sciences and the humanities. Restricted to students in the Coordinated Arts Program. Credits count toward the Writing Component of the Faculty of Arts Writing and Research Requirement. Credit will be granted for only one of CAP 100 or ASTU 101. Equivalency: ASTU 101.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
CAP_V 100-E03	CAP_V	100	E03	Introduction to Writing and Research in the Social Sciences and the Humanities	W1	Analysis of and practice in academic research and writing in the social sciences and the humanities. Restricted to students in the Coordinated Arts Program. Credits count toward the Writing Component of the Faculty of Arts Writing and Research Requirement. Credit will be granted for only one of CAP 100 or ASTU 101. Equivalency: ASTU 101.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
CAP_V 100-E04	CAP_V	100	E04	Introduction to Writing and Research in the Social Sciences and the Humanities	W1	Analysis of and practice in academic research and writing in the social sciences and the humanities. Restricted to students in the Coordinated Arts Program. Credits count toward the Writing Component of the Faculty of Arts Writing and Research Requirement. Credit will be granted for only one of CAP 100 or ASTU 101. Equivalency: ASTU 101.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	



CAP_V 101-E01	CAP_V	101	E01	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAP_V 101-E02	CAP_V	101	E02	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAP_V 101-E03	CAP_V	101	E03	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CAP_V 101-E04	CAP_V	101	E04	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CAP_V 101-I01	CAP_V	101	I01	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAP_V 101-I02	CAP_V	101	I02	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CAP_V 101-I03	CAP_V	101	I03	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CAP_V 101-I04	CAP_V	101	I04	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CAP_V 101-I05	CAP_V	101	I05	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CAP_V 101-L01	CAP_V	101	L01	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAP_V 101-L02	CAP_V	101	L02	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CAP_V 101-L03	CAP_V	101	L03	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CAP_V 101-L04	CAP_V	101	L04	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CAP_V 101-M01	CAP_V	101	M01	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAP_V 101-M02	CAP_V	101	M02	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CAP_V 101-M03	CAP_V	101	M03	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CAP_V 101-M04	CAP_V	101	M04	Introduction to Reading and Research in Literary, Cultural, and Media Studies	W2	Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary each year. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 100. Equivalency: ASTU 100	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CAPS_V 205-001	CAPS_V	205	001	Fundamentals of Physiology in Human Health and Disease I	W1	The principles of physiological regulation of neuromuscular, cardiovascular and blood systems in the human body with practical applications in health and disease. Credit will only be granted for one of CAPS 301 or CAPS 205. [3-0-0] Prerequisite: All of BIOL 112, CHEM 123, MATH 101. and 100-level PHYS beyond PHYS 100.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAPS_V 206-001	CAPS_V	206	001	Fundamentals of Physiology in Human Health and Disease II	W2	The principles of physiological regulation of respiratory, renal, gastrointestinal, endocrine and reproductive systems in the human body with practical applications in health and disease. Credit will only be granted for one of CAPS 301 or CAPS 206. [3-0-0] Prerequisite: All of BIOL 112, CHEM 123, MATH 101. and 100-level PHYS beyond PHYS 100.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAPS_V 210-001	CAPS_V	210	001	Human Health Literacy	W1	An on-line course teaching students to research and understand relevant health diagnoses. Not for students with Biology 12, Anatomy and Physiology 12, or enrolled in the Faculties of Science, Land and Food Systems, Pharmaceutical Sciences, Applied Science or School of Kinesiology. [3-0-0] Organ systems function with particular reference to mammalian and human physiology. See credit exclusion list: <a href="https://vancover.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancover.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will only be granted for one of CAPS 301 or CAPS 205. Credit will only be granted for one of CAPS 301 or CAPS 206. [3-0-0;3-0-0] Prerequisite: Either (a) SCIE 001 or (b) all of BIOL 112, BIOL 121 and one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 100, PHYS 101, PHYS 107, PHYS 117, PHYS 131 and one of CHEM 203, CHEM 233, CHEM 260.	In Person Learning	Sun	7:30 p.m. - 8:30 p.m.
CAPS_V 301-01D	CAPS_V	301	01D	Human Physiology	W1-2	Techniques and principles of human physiology. This course must be taken in conjunction with CAPS 301. Restricted to Cellular, Anatomical and Physiological Sciences and Pharmacology students. [1-4-0] Corequisite: One of CAPS 305, CAPS 301.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CAPS_V 303-001	CAPS_V	303	001	Laboratory in Human Physiology	W1-2	Techniques and principles of human physiology. This course must be taken in conjunction with CAPS 301. Restricted to Cellular, Anatomical and Physiological Sciences and Pharmacology students. [1-4-0] Corequisite: One of CAPS 305, CAPS 301.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.

CAPS_V 390-001	CAPS_V	390	001	Introduction to Microscopic Human Anatomy	W1	Organ system development, structure and function at the microscopic level. [3-0-0] Prerequisite: One of BIOL 121, SCIE 001. BIOL 200 is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
CAPS_V 391-001	CAPS_V	391	001	Introduction to Gross Human Anatomy	W2	Structure and function of body regions at the macroscopic level. [3-0-0] Prerequisite: One of BIOL 121, SCIE 001, KIN 190, KIN 191.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
CAPS_V 398-001	CAPS_V	398	001	Cooperative Work Placement	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CAPS 205, CAPS 303 and one of CAPS 206, CAPS 301.	In Person Learning	Arranged	Arranged	
CAPS_V 398-002	CAPS_V	398	002	Cooperative Work Placement	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CAPS 205, CAPS 303 and one of CAPS 206, CAPS 301.	In Person Learning	Arranged	Arranged	
CAPS_V 399-001	CAPS_V	399	001	Cooperative Work Placement II	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 398.	In Person Learning	Arranged	Arranged	
CAPS_V 399-002	CAPS_V	399	002	Cooperative Work Placement II	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 398.	In Person Learning	Arranged	Arranged	
CAPS_V 421-001	CAPS_V	421	001	Cell Biology and Human Disease	W1	Outlines major discoveries and current advancements that are revolutionizing our understanding of subcellular structures and function in health and disease, such as cancer. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Either (a) all of CAPS 306, CAPS 310 or (b) one of CAPS 301, NSCI 300.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.	
CAPS_V 422-001	CAPS_V	422	001	Mammalian Cardiovascular and Respiratory Physiology	W1	The control and integration of cardio-pulmonary function in mammals. Intended for Honours students in Cellular, Anatomical and Physiological Sciences or other life sciences. [3-0-0] Prerequisite: A cumulative average of 75% over at least 90 credits attempted in the first three years of a student's program and a minimum mark of 75% in CAPS 301 or PHYL 301 or its equivalent. Permission of the course director is also required.	In Person Learning	Tue Thu	8:00 a.m. - 10:00 a.m.	
CAPS_V 423-001	CAPS_V	423	001	Human Renal and Gastrointestinal Physiology	W1	Control of human renal and gastrointestinal systems. Role in homeostasis in health and disease. Intended for students in Cellular, Anatomical and Physiological Sciences or other life sciences. [3-0-0] Prerequisite: Either (a) all of CAPS 305, CAPS 306 or (b) CAPS 301.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.	
CAPS_V 424-001	CAPS_V	424	001	Mammalian Endocrinology	W2	Hormonal control of homeostatic, metabolic and reproductive function. Intended for Honours students in Cellular, Anatomical and Physiological Sciences or other life sciences. [3-0-0] Prerequisite: A cumulative average of 75% over at least 90 credits attempted in the first three years of a student's program and a minimum mark of 75% in CAPS 301 or PHYL 301. Permission of the course director is also required.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.	
CAPS_V 426-001	CAPS_V	426	001	Nervous System Function in Human Health and Disease	W2	An integrated study of the theory and experimental findings of neuronal synaptic plasticity, including underlying molecular mechanisms and their role in cellular systems, cognitive biology and disease. [3-0-0] Prerequisite: One of CAPS 305, CAPS 301, NSCI 300.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.	
CAPS_V 431-001	CAPS_V	431	001	Advanced Laboratory in the Physiology of Human Health and Disease	W2	Techniques relevant to human genetics and physiology in the assessment of human health and disease. This course is restricted to CAPS students. [1-4-0] Prerequisite: CAPS 303.	In Person Learning	Fri	10:00 a.m. - 5:00 p.m.	
CAPS_V 448-A_001	CAPS_V	448	A	A_001	Directed Studies in Physiology	W1		In Person Learning	Arranged	Arranged
CAPS_V 448-B_002	CAPS_V	448	B	B_002	Directed Studies in Physiology	W2		In Person Learning	Arranged	Arranged
CAPS_V 448-C_003	CAPS_V	448	C	C_003	Directed Studies in Physiology	W1-2		In Person Learning	Sun	5:30 p.m. - 6:30 p.m.
CAPS_V 449-001	CAPS_V	449	001	Graduating Essay	W1-2	Written report and presentation on an independent investigation approved by the department head.	In Person Learning	Sun	8:30 p.m. - 9:00 p.m.	
CAPS_V 498-001	CAPS_V	498	001	Cooperative Work Placement III	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 399.	In Person Learning	Arranged	Arranged	
CAPS_V 498-002	CAPS_V	498	002	Cooperative Work Placement III	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 399.	In Person Learning	Arranged	Arranged	
CAPS_V 499-001	CAPS_V	499	001	Cooperative Work Placement IV	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 498.	In Person Learning	Arranged	Arranged	
CAPS_V 499-002	CAPS_V	499	002	Cooperative Work Placement IV	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.). This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 498.	In Person Learning	Arranged	Arranged	

CCFI_V 501-62A	CCFI_V	501	62A	Living Inquiry in Learning Communities	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CCFI_V 699-050	CCFI_V	699	050	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
CCFI_V 699-051	CCFI_V	699	051	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
CCFI_V 699-052	CCFI_V	699	052	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
CCST_V 500-001	CCST_V	500	001	Seminar in Interdisciplinary Frameworks in Museum and Curatorial Studies	W1	Theoretical and historical foundations of visual representations and expressive culture. It explores the history of museums and galleries, and changes in the meaning of art and material culture as debates about cultural property intensify. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
CCST_V 501-001	CCST_V	501	001	Seminar in Contemporary Contextual Issues for Museums and Curatorial Practice	W2	An examination of broad social and political issues that confront curators and museum professionals who construct representations in museums, art galleries and other sites of public display. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
CCST_V 503-001	CCST_V	503	001	Graduate Practicum and Major Paper in Curatorial Studies	W1-2	Practical on-site teamwork to produce exhibitions or other public displays in a museum, gallery, or alternative situation, offering opportunities for comparison, collaboration, and interdisciplinarity. Students concurrently produce a major paper from the ideas and research which generate the exhibition. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
CCST_V 503-002	CCST_V	503	002	Graduate Practicum and Major Paper in Curatorial Studies	W1	Practical on-site teamwork to produce exhibitions or other public displays in a museum, gallery, or alternative situation, offering opportunities for comparison, collaboration, and interdisciplinarity. Students concurrently produce a major paper from the ideas and research which generate the exhibition. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CDST_V 250-A_011	CDST_V	250	A	A_011	Introduction to Canada	W1	Approaches to the study of Canada from an interdisciplinary perspective, including cultural, political, historical, and economic dimensions.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
CDST_V 250-A_D11	CDST_V	250	A	A_D11	Introduction to Canada	W1	Approaches to the study of Canada from an interdisciplinary perspective, including cultural, political, historical, and economic dimensions.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CDST_V 250-A_D12	CDST_V	250	A	A_D12	Introduction to Canada	W1	Approaches to the study of Canada from an interdisciplinary perspective, including cultural, political, historical, and economic dimensions.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CDST_V 250-A_D13	CDST_V	250	A	A_D13	Introduction to Canada	W1	Approaches to the study of Canada from an interdisciplinary perspective, including cultural, political, historical, and economic dimensions.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CDST_V 250-A_D14	CDST_V	250	A	A_D14	Introduction to Canada	W1	Approaches to the study of Canada from an interdisciplinary perspective, including cultural, political, historical, and economic dimensions.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CDST_V 350-B_101	CDST_V	350	B	B_101	Canadian Studies	W1	An interdisciplinary introduction to Canadian studies. Required of all Canadian Studies Majors.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
CDST_V 350-B_102	CDST_V	350	B	B_102	Canadian Studies	W1	An interdisciplinary introduction to Canadian studies. Required of all Canadian Studies Majors.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
CDST_V 450-B_201	CDST_V	450	B	B_201	Senior Seminar in Canadian Studies	W2	The Canadian experience from a variety of disciplinary perspectives. Offered by the McLean Chair in Canadian Studies. Required of all Canadian Studies Majors.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
CEEN_V 501-201	CEEN_V	501	201	Energy System Fundamentals	W2	Thermodynamic analysis of energy conversion processes, power cycles and refrigeration cycles. Energy analysis of conventional energy systems. Thermal conversion technologies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
CEEN_V 523-201	CEEN_V	523	201	Energy and the Environment	W2	Energy/environment/society interactions; development of energy resources; energy demand and its determinants; policy dimension of energy and climate change; impacts on ecosystems; life cycle analysis; impact assessment and other tools for quantitative and qualitative evaluation of alternative energy sources. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
CEEN_V 525-101	CEEN_V	525	101	Energy Policy	W1	Energy policy process and governance. Sustainable energy as a social and political challenge, formal government structures and process, actors in the policy, policy analysis, policy instrument, and energy planning and approval processes, including environmental assessment. Introduction to demand-side energy policy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
CEEN_V 525-T01	CEEN_V	525	T01	Energy Policy	W1	Energy policy process and governance. Sustainable energy as a social and political challenge, formal government structures and process, actors in the policy, policy analysis, policy instrument, and energy planning and approval processes, including environmental assessment. Introduction to demand-side energy policy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.	
CEEN_V 550-101	CEEN_V	550	101	Energy Efficiency and Conservation	W1	Engineering concepts of demand side management (DSM), energy auditing, analysis of buildings and industrial equipment, measurement & verification, and system data analysis. Energy efficient technologies for green buildings and industrial processes. Behavior and energy use. DSM policy concepts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.	

CEEN_V 550-T01	CEEN_V	550	T01	Energy Efficiency and Conservation	W1	Engineering concepts of demand side management (DSM), energy auditing, analysis of buildings and industrial equipment, measurement & verification, and system data analysis. Energy efficient technologies for green buildings and industrial processes. Behavior and energy use. DSM policy concepts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
CELL_V 501-001	CELL_V	501	001	Cell and Developmental Biology Research Literature	W2	Development of written communication and critical thinking skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOL 530.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
CELL_V 502-001	CELL_V	502	001	Current Topics in Developmental Biology	W1	Cellular and molecular mechanisms of development from the earliest stages of axis formation to organogenesis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Thu	3:00 p.m. - 5:00 p.m.
CELL_V 503-001	CELL_V	503	001	Current Topics in Cellular Communication	W2	Cellular communication within tissues by direct contact and by modulating and responding to the microenvironment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 6:30 p.m.
CELL_V 504-001	CELL_V	504	001	Current Topics in Cytoskeleton and Cell Motility	W2	Structure and function of the cytoskeleton, and its involvement in various forms of cell and intracellular motility. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:30 p.m.
CELL_V 505-001	CELL_V	505	001	Current Topics in Intracellular Trafficking	W2	Organization of membranes and organelles within cells and how molecules are targeted to intracellular sites. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:30 p.m. - 4:00 p.m.
CELL_V 506-001	CELL_V	506	001	Fluorescence Microscopy	W2	Principles and applications in biological research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
CELL_V 507-001	CELL_V	507	001	Special Techniques and Protocols in Cell and Developmental Biology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 3:00 p.m.
CELL_V 508-001	CELL_V	508	001	Molecular Genetic Analysis	W2	Methodologies and resources for genetic analysis of cellular function. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CELL_V 509-001	CELL_V	509	001	Cell Systems Biology	W2	The integration of basic cellular processes to produce a functioning cell. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 4:30 p.m.
CELL_V 549-001	CELL_V	549	001	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CELL_V 549-002	CELL_V	549	002	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CELL_V 549-003	CELL_V	549	003	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CELL_V 649-001	CELL_V	649	001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
CELL_V 649-002	CELL_V	649	002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
CELL_V 649-003	CELL_V	649	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
CENS_V 104-101	CENS_V	104	101	Canadian Monuments to Central and Eastern European History	W1	Structural monuments and sites dedicated to the history of an immigration from Central and Eastern Europe in Canada and their influence on Canadian cultures of remembrance.	Multi-access Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CENS_V 201-101	CENS_V	201	101	Contrasts and Conflicts: The Cultures of Central, Eastern and Northern Europe (in English)	W1	An introduction to the cultural history of the peoples of Central, Eastern and Northern Europe as reflected in their literature, art and music.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CENS_V 201-102	CENS_V	201	102	Contrasts and Conflicts: The Cultures of Central, Eastern and Northern Europe (in English)	W1	An introduction to the cultural history of the peoples of Central, Eastern and Northern Europe as reflected in their literature, art and music.	In Person Learning	Arranged	Arranged
CENS_V 201-201	CENS_V	201	201	Contrasts and Conflicts: The Cultures of Central, Eastern and Northern Europe (in English)	W2	An introduction to the cultural history of the peoples of Central, Eastern and Northern Europe as reflected in their literature, art and music.	Multi-access Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CENS_V 202-101	CENS_V	202	101	Great Works of Literature from Central, Eastern and Northern Europe (in English).	W1	Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CENS_V 202-102	CENS_V	202	102	Great Works of Literature from Central, Eastern and Northern Europe (in English).	W1	Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

CENS_V 202-103	CENS_V	202	103	Great Works of Literature from Central, Eastern and Northern Europe (in English).	W1	Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CENS_V 202-104	CENS_V	202	104	Great Works of Literature from Central, Eastern and Northern Europe (in English).	W1	Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CENS_V 202-201	CENS_V	202	201	Great Works of Literature from Central, Eastern and Northern Europe (in English).	W2	Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CENS_V 202-202	CENS_V	202	202	Great Works of Literature from Central, Eastern and Northern Europe (in English).	W2	Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
CENS_V 203-101	CENS_V	203	101	Arctic Art and Activism	W1	Examination of contemporary political and social conflicts in the arctic and circumpolar north, focusing on ways Indigenous people have used art, performance and activism as a tool for resistance and decolonization.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CENS_V 303-101	CENS_V	303	101	Representations of the Holocaust: Ghetto	W1	The Nazi Ghetto in film and literature from Central, Eastern, and Northern European Countries.	Online Learning	Arranged	Arranged
CENS_V 304-101	CENS_V	304	101	Representations of the Holocaust: Auschwitz	W1	Concentration camps in art, film and literature from Central, Eastern and Northern European countries.	Online Learning	Arranged	Arranged
CENS_V 307-101	CENS_V	307	101	Witches: Myth and Reality	W1	Examination of the cultural, social, and historical construction of the witch in central and northern Europe with comparisons to recent history, current events, and popular culture.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
CENS_V 307-201	CENS_V	307	201	Witches: Myth and Reality	W2	Examination of the cultural, social, and historical construction of the witch in central and northern Europe with comparisons to recent history, current events, and popular culture.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CENS_V 307-D01	CENS_V	307	D01	Witches: Myth and Reality	W1	Examination of the cultural, social, and historical construction of the witch in central and northern Europe with comparisons to recent history, current events, and popular culture.	In Person Learning	Arranged	Arranged
CENS_V 307-D02	CENS_V	307	D02	Witches: Myth and Reality	W2	Examination of the cultural, social, and historical construction of the witch in central and northern Europe with comparisons to recent history, current events, and popular culture.	In Person Learning	Arranged	Arranged
CENS_V 308-101	CENS_V	308	101	Comics and Graphic Novels in Central, Eastern and Northern Europe	W1	Political, cultural and social themes in European comics and graphic media.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CENS_V 315-201	CENS_V	315	201	Becoming Multilingual: Experience, Aesthetics, Community	W2	Practice, theory, history, aesthetics, and poetics of the multilingual experience in its diverse contexts in Central, Eastern, and Northern Europe.	In Person Learning	Arranged	Arranged
CENS_V 404-101	CENS_V	404	101	Gender and Nation: Women's State in Modern Central, Eastern and Northern European Literatures and Cultures	W1	Cultural and social discourses of gender in literary works written in Central, Eastern and Northern Europe roughly between 1850 - 1930.	Multi-access Learning	Tue	5:00 p.m. - 8:00 p.m.
CHBE_V 201-101	CHBE_V	201	101	Integrated Technical Communication	W1	Written and oral communication in chemical and biological engineering: business correspondence, laboratory reports, technical description, and poster presentations. Restricted to students in second year of the Chemical and Biological Engineering programs. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150. Corequisite: CHBE 220.	In Person Learning	Fri	1:00 p.m. - 2:30 p.m.
CHBE_V 201-102	CHBE_V	201	102	Integrated Technical Communication	W1	Written and oral communication in chemical and biological engineering: business correspondence, laboratory reports, technical description, and poster presentations. Restricted to students in second year of the Chemical and Biological Engineering programs. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150. Corequisite: CHBE 220.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 201-103	CHBE_V	201	103	Integrated Technical Communication	W1	Written and oral communication in chemical and biological engineering: business correspondence, laboratory reports, technical description, and poster presentations. Restricted to students in second year of the Chemical and Biological Engineering programs. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150. Corequisite: CHBE 220.	In Person Learning	Fri	2:30 p.m. - 4:00 p.m.
CHBE_V 220-101	CHBE_V	220	101	Founding Principles in Chemical and Biological Engineering I	W1	Introduction to Chemical and Biological Engineering profession and the physical sciences that form the founding principles of the discipline. Recommended Corequisite: CHBE 201. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CHEM 154, MATH 101.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
CHBE_V 220-T1A	CHBE_V	220	T1A	Founding Principles in Chemical and Biological Engineering I	W1	Introduction to Chemical and Biological Engineering profession and the physical sciences that form the founding principles of the discipline. Recommended Corequisite: CHBE 201. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CHEM 154, MATH 101.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CHBE_V 221-201	CHBE_V	221	201	Founding Principles in Chemical and Biological Engineering II	W2	Introduction to Chemical and Biological Engineering profession with emphasis on the biological sciences that form the founding principles of the discipline. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE 220.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 221-T2A	CHBE_V	221	T2A	Founding Principles in Chemical and Biological Engineering II	W2	Introduction to Chemical and Biological Engineering profession with emphasis on the biological sciences that form the founding principles of the discipline. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE 220.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.

CHBE_V 230-201	CHBE_V	230	201	Computational Methods	W2	Mathematical formulation of chemical and biological engineering problems; standard techniques of numerical analysis and their application to chemical, environmental and biotechnological systems; program development; use of commercial numerical analysis software. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: APSC 160. Corequisite: MATH 256.	In Person Learning	Tue	3:30 p.m. - 5:30 p.m.
CHBE_V 230-T2A	CHBE_V	230	T2A	Computational Methods	W2	Mathematical formulation of chemical and biological engineering problems; standard techniques of numerical analysis and their application to chemical, environmental and biotechnological systems; program development; use of commercial numerical analysis software. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: APSC 160. Corequisite: MATH 256.	In Person Learning	Thu	3:30 p.m. - 5:30 p.m.
CHBE_V 241-101	CHBE_V	241	101	Material and Energy Balances	W1	Introduction to Chemical and Biological Engineering; units; stoichiometry; phase equilibria; material balances; energy balances. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of CHEM 154, MATH 152.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHBE_V 241-T1A	CHBE_V	241	T1A	Material and Energy Balances	W1	Introduction to Chemical and Biological Engineering; units; stoichiometry; phase equilibria; material balances; energy balances. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of CHEM 154, MATH 152.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
CHBE_V 241-T1B	CHBE_V	241	T1B	Material and Energy Balances	W1	Introduction to Chemical and Biological Engineering; units; stoichiometry; phase equilibria; material balances; energy balances. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of CHEM 154, MATH 152.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
CHBE_V 241-T1C	CHBE_V	241	T1C	Material and Energy Balances	W1	Introduction to Chemical and Biological Engineering; units; stoichiometry; phase equilibria; material balances; energy balances. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of CHEM 154, MATH 152.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
CHBE_V 241-T1D	CHBE_V	241	T1D	Material and Energy Balances	W1	Introduction to Chemical and Biological Engineering; units; stoichiometry; phase equilibria; material balances; energy balances. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of CHEM 154, MATH 152.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
CHBE_V 244-201	CHBE_V	244	201	Chemical and Biological Engineering Thermodynamics I	W2	Energy and the first law; second law of thermodynamics; entropy; availability (energy) analysis; thermodynamic properties of fluids, application to power generation, refrigeration, and liquefaction, as well as biological, environmental, and electrochemical systems. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: CHBE 241.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CHBE_V 244-T2A	CHBE_V	244	T2A	Chemical and Biological Engineering Thermodynamics I	W2	Energy and the first law; second law of thermodynamics; entropy; availability (energy) analysis; thermodynamic properties of fluids, application to power generation, refrigeration, and liquefaction, as well as biological, environmental, and electrochemical systems. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: CHBE 241.	In Person Learning	Thu (Alternate weeks)	12:00 p.m. - 2:00 p.m.
CHBE_V 251-201	CHBE_V	251	201	Transport Phenomena I	W2	Fluid Mechanics. Momentum-transfer in fluids in laminar and turbulent flow; microscopic and macroscopic material; momentum and energy balances; rheology; dimensional analysis; flow in conduits; pumps; fluid metering. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: [PHYS170] Corequisite: One of MATH 255, MATH 256.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHBE_V 251-T2A	CHBE_V	251	T2A	Transport Phenomena I	W2	Fluid Mechanics. Momentum-transfer in fluids in laminar and turbulent flow; microscopic and macroscopic material; momentum and energy balances; rheology; dimensional analysis; flow in conduits; pumps; fluid metering. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: [PHYS170] Corequisite: One of MATH 255, MATH 256.	In Person Learning	Thu (Alternate weeks)	12:00 p.m. - 2:00 p.m.
CHBE_V 263-101	CHBE_V	263	101	Introduction to Chemical and Biological Engineering Laboratory Practice	W1	Introduction to Chemical and Biological Engineering laboratory practice with topics in physical, inorganic and organic chemistry. This course is not eligible for Credit/D/Fail grading. [0-2-0] Corequisite: All of CHBE 220, CHBE 241, CHEM 250, CHEM 260.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
CHBE_V 263-102	CHBE_V	263	102	Introduction to Chemical and Biological Engineering Laboratory Practice	W1	Introduction to Chemical and Biological Engineering laboratory practice with topics in physical, inorganic and organic chemistry. This course is not eligible for Credit/D/Fail grading. [0-2-0] Corequisite: All of CHBE 220, CHBE 241, CHEM 250, CHEM 260.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
CHBE_V 263-103	CHBE_V	263	103	Introduction to Chemical and Biological Engineering Laboratory Practice	W1	Introduction to Chemical and Biological Engineering laboratory practice with topics in physical, inorganic and organic chemistry. This course is not eligible for Credit/D/Fail grading. [0-2-0] Corequisite: All of CHBE 220, CHBE 241, CHEM 250, CHEM 260.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
CHBE_V 263-104	CHBE_V	263	104	Introduction to Chemical and Biological Engineering Laboratory Practice	W1	Introduction to Chemical and Biological Engineering laboratory practice with topics in physical, inorganic and organic chemistry. This course is not eligible for Credit/D/Fail grading. [0-2-0] Corequisite: All of CHBE 220, CHBE 241, CHEM 250, CHEM 260.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
CHBE_V 264-201	CHBE_V	264	201	Chemical and Biological Engineering Laboratory	W2	Laboratory experiment in 2nd year Chemical and Biological Engineering This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: CHBE 263. Corequisite: All of CHBE 244, CHBE 251.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
CHBE_V 264-L2A	CHBE_V	264	L2A	Chemical and Biological Engineering Laboratory	W2	Laboratory experiment in 2nd year Chemical and Biological Engineering This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: CHBE 263. Corequisite: All of CHBE 244, CHBE 251.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
CHBE_V 264-L2B	CHBE_V	264	L2B	Chemical and Biological Engineering Laboratory	W2	Laboratory experiment in 2nd year Chemical and Biological Engineering This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: CHBE 263. Corequisite: All of CHBE 244, CHBE 251.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
CHBE_V 344-101	CHBE_V	344	101	Introduction to Unit Operations	W1	Foundational concepts and design equations for basic unit operations such as: comminution, screening, filtration, centrifugal separations, evaporation and crystallization. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: Either (a) all of CHBE 241, CHBE 244 or (b) CIVL 215. Or third-year standing in ENVE. Not for credit for CHBE students.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CHBE_V 344-T1A	CHBE_V	344	T1A	Introduction to Unit Operations	W1	Foundational concepts and design equations for basic unit operations such as: comminution, screening, filtration, centrifugal separations, evaporation and crystallization. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: Either (a) all of CHBE 241, CHBE 244 or (b) CIVL 215. Or third-year standing in ENVE. Not for credit for CHBE students.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.

CHBE_V 345-201	CHBE_V	345	201	Unit Operations	W2	Stage-wise mass transfer operations; extraction and absorption; single and stage-wise binary and multi-component distillation; principles and equipment design for continuous contact mass transfer operations including absorption, binary distillation and others such as extraction, drying, and humidification. This course is not eligible for Credit/D/Fail grading. [4-0-2*] Prerequisite: All of CHBE 346, CHBE 352.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHBE_V 345-T2A	CHBE_V	345	T2A	Unit Operations	W2	Stage-wise mass transfer operations; extraction and absorption; single and stage-wise binary and multi-component distillation; principles and equipment design for continuous contact mass transfer operations including absorption, binary distillation and others such as extraction, drying, and humidification. This course is not eligible for Credit/D/Fail grading. [4-0-2*] Prerequisite: All of CHBE 346, CHBE 352.	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 346-101	CHBE_V	346	101	Chemical and Biological Engineering Thermodynamics II	W1	Volumetric and thermodynamic properties of fluids; equations of state; heat effects; ideal and non-ideal mixtures; fugacities and activity coefficients; vapor-liquid and liquid-liquid phase equilibrium; solubility of gases and solids in liquids; chemical reaction equilibrium; equilibrium partitioning of pollutants. Recommended prerequisite: MATH 256. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of CHBE 220, CHBE 241, CHBE 244, MATH 253.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHBE_V 346-T1A	CHBE_V	346	T1A	Chemical and Biological Engineering Thermodynamics II	W1	Volumetric and thermodynamic properties of fluids; equations of state; heat effects; ideal and non-ideal mixtures; fugacities and activity coefficients; vapor-liquid and liquid-liquid phase equilibrium; solubility of gases and solids in liquids; chemical reaction equilibrium; equilibrium partitioning of pollutants. Recommended prerequisite: MATH 256. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of CHBE 220, CHBE 241, CHBE 244, MATH 253.	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 352-101	CHBE_V	352	101	Transport Phenomena II	W1	Heat and mass transfer; conduction and molecular diffusion; convective transfer; analogies among heat, mass and momentum transfer; heat exchanger design; mass transfer coefficients; interphase mass transfer. This course is not eligible for Credit/D/Fail grading. [4-0-2*] Prerequisite: One of CHBE 251, CIVL 215, MECH 280 and MATH 256. or third-year standing in ENVE.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
CHBE_V 352-T1A	CHBE_V	352	T1A	Transport Phenomena II	W1	Heat and mass transfer; conduction and molecular diffusion; convective transfer; analogies among heat, mass and momentum transfer; heat exchanger design; mass transfer coefficients; interphase mass transfer. This course is not eligible for Credit/D/Fail grading. [4-0-2*] Prerequisite: One of CHBE 251, CIVL 215, MECH 280 and MATH 256. or third-year standing in ENVE.	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 355-201	CHBE_V	355	201	Kinetics and Reactor Design	W2	Kinetics of homogeneous chemical and biological reactions, isothermal ideal reactor design, analysis of non-ideal reactors using residence time distribution and mixing models. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of CHBE 230, CHBE 346, CHBE 352.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHBE_V 355-T2A	CHBE_V	355	T2A	Kinetics and Reactor Design	W2	Kinetics of homogeneous chemical and biological reactions, isothermal ideal reactor design, analysis of non-ideal reactors using residence time distribution and mixing models. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of CHBE 230, CHBE 346, CHBE 352.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
CHBE_V 356-201	CHBE_V	356	201	Process Dynamics and Control	W2	Introduction to modelling of chemical processes; transient response analysis; design of feedback control systems; stability analysis; frequency response analysis; process control applications; instrumentation; advanced control techniques; distributed control systems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: MATH255, MATH256	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHBE_V 356-L2A	CHBE_V	356	L2A	Process Dynamics and Control	W2	Introduction to modelling of chemical processes; transient response analysis; design of feedback control systems; stability analysis; frequency response analysis; process control applications; instrumentation; advanced control techniques; distributed control systems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: MATH255, MATH256	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.
CHBE_V 362-101	CHBE_V	362	101	Process Engineering Laboratory	W1	Experiments to illustrate and use material presented in 200 and 300-level CHBE courses. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 251, CHBE 264. Corequisite: CHBE 352.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
CHBE_V 362-L1A	CHBE_V	362	L1A	Process Engineering Laboratory	W1	Experiments to illustrate and use material presented in 200 and 300-level CHBE courses. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 251, CHBE 264. Corequisite: CHBE 352.	In Person Learning	Tue	2:00 p.m. - 6:00 p.m.
CHBE_V 362-L1B	CHBE_V	362	L1B	Process Engineering Laboratory	W1	Experiments to illustrate and use material presented in 200 and 300-level CHBE courses. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 251, CHBE 264. Corequisite: CHBE 352.	In Person Learning	Fri	2:00 p.m. - 6:00 p.m.
CHBE_V 364-101	CHBE_V	364	101	Environmental Engineering Laboratory	W1	Laboratory experiments to illustrate key concepts and measurement techniques in environmental engineering as used by engineers. This course is not eligible for Credit/D/Fail grading. [1-4-0] Corequisite: One of CHBE 373, CIVL 406.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
CHBE_V 364-L1A	CHBE_V	364	L1A	Environmental Engineering Laboratory	W1	Laboratory experiments to illustrate key concepts and measurement techniques in environmental engineering as used by engineers. This course is not eligible for Credit/D/Fail grading. [1-4-0] Corequisite: One of CHBE 373, CIVL 406.	In Person Learning	Mon	8:00 a.m. - 12:00 p.m.
CHBE_V 365-201	CHBE_V	365	201	Biological Engineering Laboratory	W2	Laboratory experiments to illustrate key concepts and measurement techniques in biotechnology as used by engineers. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 264, CHBE 221. Corequisite: CHBE 381.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
CHBE_V 365-L2A	CHBE_V	365	L2A	Biological Engineering Laboratory	W2	Laboratory experiments to illustrate key concepts and measurement techniques in biotechnology as used by engineers. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 264, CHBE 221. Corequisite: CHBE 381.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
CHBE_V 366-201	CHBE_V	366	201	Chemical Engineering Laboratory	W2	Experiments to illustrate and use material presented in 300-level Chemical Engineering program courses. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 251, CHBE 264.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
CHBE_V 366-L2A	CHBE_V	366	L2A	Chemical Engineering Laboratory	W2	Experiments to illustrate and use material presented in 300-level Chemical Engineering program courses. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 251, CHBE 264.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
CHBE_V 366-L2B	CHBE_V	366	L2B	Chemical Engineering Laboratory	W2	Experiments to illustrate and use material presented in 300-level Chemical Engineering program courses. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: All of CHBE 201, CHBE 230, CHBE 241, CHBE 251, CHBE 264.	In Person Learning	Fri	1:00 p.m. - 5:00 p.m.

CHBE_V 370-101	CHBE_V	370	101	Fundamentals of Sustainable Engineering	W1	Introduction to sustainable practice for Chemical and Biological Engineers. Pollution prevention, cleaner production, green chemistry and engineering, and sustainable design; environmental impact assessment including life-cycle assessment, total cost analysis and environmental systems analysis; applications in chemical and biological process industries. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of CHBE 241, CHBE 244, or third-year standing in ENVE.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 370-T1A	CHBE_V	370	T1A	Fundamentals of Sustainable Engineering	W1	Introduction to sustainable practice for Chemical and Biological Engineers. Pollution prevention, cleaner production, green chemistry and engineering, and sustainable design; environmental impact assessment including life-cycle assessment, total cost analysis and environmental systems analysis; applications in chemical and biological process industries. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of CHBE 241, CHBE 244, or third-year standing in ENVE.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 373-101	CHBE_V	373	101	Water and Wastewater Technology and Engineering	W1	Legal, environmental and physicochemical aspects of industrial water pollution and its abatement will be surveyed; techniques for design of wastewater treatment processes currently used in industry; case studies from chemical and process industries will be considered in detail. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CHBE 251, CIVL 215, MECH 280, MTRL 263. or third-year standing in ENVE.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
CHBE_V 373-T1A	CHBE_V	373	T1A	Water and Wastewater Technology and Engineering	W1	Legal, environmental and physicochemical aspects of industrial water pollution and its abatement will be surveyed; techniques for design of wastewater treatment processes currently used in industry; case studies from chemical and process industries will be considered in detail. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CHBE 251, CIVL 215, MECH 280, MTRL 263. or third-year standing in ENVE.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
CHBE_V 376-201	CHBE_V	376	201	Computer Flowsheeting and Unit Operation Design	W2	Theory and practice of computer flowsheeting in chemical plant design; hands-on use of modern process simulators, prediction of thermodynamic properties of fluids; behaviour of single and multiphase systems. Design of unit operations. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE241 Corequisite: All of CHBE 345, CHBE 355 for students enrolled in CHBE or third-year standing in BASc.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 376-T2A	CHBE_V	376	T2A	Computer Flowsheeting and Unit Operation Design	W2	Theory and practice of computer flowsheeting in chemical plant design; hands-on use of modern process simulators, prediction of thermodynamic properties of fluids; behaviour of single and multiphase systems. Design of unit operations. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE241 Corequisite: All of CHBE 345, CHBE 355 for students enrolled in CHBE or third-year standing in BASc.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
CHBE_V 381-201	CHBE_V	381	201	Biological Engineering and Bio-Manufacturing I	W2	Biological process engineering in the fields of biotechnology and biomedical engineering; enzymatic and cellular kinetics; cell culture, bioreactor mass transport and process development; bioreactor design and operation. Credit will be granted for only one of CHBE 381, CHBE 560. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of CHBE 221, BMEG 245 and one of MATH 101, MATH 103, MATH 105. and third-year standing.	In Person Learning	Fri	10:00 a.m. - 11:30 a.m.
CHBE_V 381-T2A	CHBE_V	381	T2A	Biological Engineering and Bio-Manufacturing I	W2	Biological process engineering in the fields of biotechnology and biomedical engineering; enzymatic and cellular kinetics; cell culture, bioreactor mass transport and process development; bioreactor design and operation. Credit will be granted for only one of CHBE 381, CHBE 560. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of CHBE 221, BMEG 245 and one of MATH 101, MATH 103, MATH 105. and third-year standing.	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 402-201	CHBE_V	402	201	Biomass Fractionation Technology	W2	Process and unit operations in the conversion of wood chips to pulp and green bio-products. Biorefinery concepts and emerging technologies for the production of biomaterials, biochemicals and bioenergy. Credit will be granted for only one of CHBE 402, CHBE 502 or GBPR 502. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CHBE_V 410-101	CHBE_V	410	101	Systems Biology and Metabolic Engineering	W1	Foundational concepts, experimentation methodologies, research horizons, and industrial applications of microbial cell engineering. Topics of note include genome-scale modeling, genome editing, biological circuits, protein engineering and the design-build-test-learn (DBTL) workflow. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisites: One of CHBE 381, CHBE 419 or BMEG 374 or Graduate student in CHBE or SBME.	In Person Learning	Mon Tue Fri	11:00 a.m. - 12:00 p.m.
CHBE_V 419-201	CHBE_V	419	201	Industrial Biotechnology Laboratory	W2	Modern bioreactor technology, upstream and downstream processing of biotechnology products. Restricted to students in the Joint Degree in Biotechnology. [1-4-0]	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
CHBE_V 419-L2A	CHBE_V	419	L2A	Industrial Biotechnology Laboratory	W2	Modern bioreactor technology, upstream and downstream processing of biotechnology products. Restricted to students in the Joint Degree in Biotechnology. [1-4-0]	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.
CHBE_V 451-201	CHBE_V	451	201	Engineering Thermodynamics and Statistical Mechanics	W2	Classical thermodynamic relations from a molecular perspective. Pressure-volume-temperature relations; chemical equilibria by Gibbs' method; vapor-liquid equilibria; thermodynamic calculations based on macroscopic and statistical methods; nonequilibrium processes; molecular simulations. Credit will be granted for only one of CHBE 451, CHBE 551. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of CHBE 346, MTRL 350, MECH 327.	In Person Learning	Arranged	Arranged
CHBE_V 451-T2A	CHBE_V	451	T2A	Engineering Thermodynamics and Statistical Mechanics	W2	Classical thermodynamic relations from a molecular perspective. Pressure-volume-temperature relations; chemical equilibria by Gibbs' method; vapor-liquid equilibria; thermodynamic calculations based on macroscopic and statistical methods; nonequilibrium processes; molecular simulations. Credit will be granted for only one of CHBE 451, CHBE 551. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of CHBE 346, MTRL 350, MECH 327.	In Person Learning	Arranged	Arranged
CHBE_V 453-001	CHBE_V	453	001	Biological Process and Product Design	W1-2	8-month project-based course, integrating chemical and biological engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major biological processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376, CHBE 381. Corequisite: All of CHBE 459, CHBE 481.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
CHBE_V 453-DNU_001	CHBE_V	453	DNU_001	Biological Process and Product Design	W2	8-month project-based course, integrating chemical and biological engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major biological processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376, CHBE 381. Corequisite: All of CHBE 459, CHBE 481.	In Person Learning	Arranged	Arranged
CHBE_V 453-TOA	CHBE_V	453	TOA	Biological Process and Product Design	W1-2	8-month project-based course, integrating chemical and biological engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major biological processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376, CHBE 381. Corequisite: All of CHBE 459, CHBE 481.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.

CHBE_V 453-T1A	CHBE_V	453	T1A	Biological Process and Product Design	W1-2	8-month project-based course, integrating chemical and biological engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major biological processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376, CHBE 381. Corequisite: All of CHBE 459, CHBE 481.	In Person Learning	Arranged	Arranged
CHBE_V 453-T2A	CHBE_V	453	T2A	Biological Process and Product Design	W2	8-month project-based course, integrating chemical and biological engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major biological processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376, CHBE 381. Corequisite: All of CHBE 459, CHBE 481.	In Person Learning	Arranged	Arranged
CHBE_V 454-001	CHBE_V	454	001	Chemical Process and Product Design	W1-2	8-month project-based course, integrating chemical engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major chemical processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376. Corequisite: All of CHBE 459, CHBE 471.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
CHBE_V 454-DNU_001	CHBE_V	454	DNU_001	Chemical Process and Product Design	W2	8-month project-based course, integrating chemical engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major chemical processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376. Corequisite: All of CHBE 459, CHBE 471.	In Person Learning	Arranged	Arranged
CHBE_V 454-TOA	CHBE_V	454	TOA	Chemical Process and Product Design	W1-2	8-month project-based course, integrating chemical engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major chemical processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376. Corequisite: All of CHBE 459, CHBE 471.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CHBE_V 454-T1A	CHBE_V	454	T1A	Chemical Process and Product Design	W1-2	8-month project-based course, integrating chemical engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major chemical processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376. Corequisite: All of CHBE 459, CHBE 471.	In Person Learning	Arranged	Arranged
CHBE_V 454-T2A	CHBE_V	454	T2A	Chemical Process and Product Design	W2	8-month project-based course, integrating chemical engineering concepts with economics, life cycle analysis and health and safety considerations in the design of major chemical processes. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: All of CHBE 241, CHBE 345, CHBE 356, CHBE 376. Corequisite: All of CHBE 459, CHBE 471.	In Person Learning	Arranged	Arranged
CHBE_V 456-101	CHBE_V	456	101	Heterogenous Catalysis and Advanced Reactor Design	W1	Definition of heterogeneous catalysis; properties of catalysts; kinetics of catalytic reactions; ideal heterogeneous reactors; non-isothermal reactor design; mass and heat transfer effects in heterogeneous reactors; examples of industrial reactors. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of CHBE 230, CHBE 352, CHBE 355.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHBE_V 456-T1A	CHBE_V	456	T1A	Heterogenous Catalysis and Advanced Reactor Design	W1	Definition of heterogeneous catalysis; properties of catalysts; kinetics of catalytic reactions; ideal heterogeneous reactors; non-isothermal reactor design; mass and heat transfer effects in heterogeneous reactors; examples of industrial reactors. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of CHBE 230, CHBE 352, CHBE 355.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 457-101	CHBE_V	457	101	Process Synthesis	W1	Strategy for the conceptual design of industrial chemical and biological processes; rules of thumb for chemical engineers, simulation to assist process synthesis, reactor-separator network synthesis, introduction to product design and molecular structure design, efficiency and sustainability in the chemical industry. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: CHBE241, CHBE346, CHBE376, CHBE344	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 457-T1A	CHBE_V	457	T1A	Process Synthesis	W1	Strategy for the conceptual design of industrial chemical and biological processes; rules of thumb for chemical engineers, simulation to assist process synthesis, reactor-separator network synthesis, introduction to product design and molecular structure design, efficiency and sustainability in the chemical industry. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: CHBE241, CHBE346, CHBE376, CHBE344	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
CHBE_V 459-201	CHBE_V	459	201	Chemical and Biological Engineering Economics	W2	Estimation of capital and operating costs; interest calculations; taxes; economic comparison of alternatives; economic optimization. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Third-year standing in BASc or BSc.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 464-001	CHBE_V	464	001	Chemical and Biological Engineering Laboratory	W1-2	Experiments in unit operations relating to process, environmental and biological engineering. Experiments are designed to provide experience in instrumentation and control. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [0-6-0; 0-6-0] Prerequisite: All of CHBE 345, CHBE 355, CHBE 356, CHBE 362 and one of CHBE 365, CHBE 366.	In Person Learning	Thu	12:30 p.m. - 6:30 p.m.
CHBE_V 471-101	CHBE_V	471	101	Chemical Process Engineering	W1	Selection and design of major equipment used in chemical process plants, including heat exchangers, separators, reactors. Recommended pre-requisite: CHBE 376. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CHBE 345, CHBE 352, CHBE 355.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 471-T1A	CHBE_V	471	T1A	Chemical Process Engineering	W1	Selection and design of major equipment used in chemical process plants, including heat exchangers, separators, reactors. Recommended pre-requisite: CHBE 376. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CHBE 345, CHBE 352, CHBE 355.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
CHBE_V 472-201	CHBE_V	472	201	Technologies for Human and Environmental Health	W2	Fundamentals of cutting-edge bioanalysis technologies with an emphasis on applications in health and the environment. Concepts and calculations involving: separations, mass transfer, reaction kinetics, mixing, electrochemistry, and others. Analysis tools employed include: limits of detection, sensitivity, specificity, and other measures. Credit will be granted for only one of CHBE 472 or CHBE 572. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth year standing in BASc or BSc.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.
CHBE_V 473-201	CHBE_V	473	201	Environmental Engineering and Sustainability Leadership	W2	Topics may include: Life cycle assessment, circular economy, system dynamics modelling, design thinking, systems thinking, traditional ecological knowledge, adaptive and evolutionary leadership, and relationality. Credit will be granted for only one of CHBE 473 or CHBE 573. Prerequisite: CHBE 370. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	6:00 p.m. - 7:30 p.m.
CHBE_V 474-101	CHBE_V	474	101	Process Control Engineering	W1	Frequency response analysis; advanced control techniques; multivariable control systems; mathematical tools for computer control systems; design of computer control systems; engineering design of industrial control applications; plant wide control concepts; distributed control systems concepts. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: CHBE356, CHBE376	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.

CHBE_V 474-T1A	CHBE_V	474	T1A	Process Control Engineering	W1	Frequency response analysis; advanced control techniques; multivariable control systems; mathematical tools for computer control systems; design of computer control systems; engineering design of industrial control applications; plant wide control concepts; distributed control systems concepts. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: CHBE356, CHBE376	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
CHBE_V 476-101	CHBE_V	476	101	Advanced Process Engineering and Simulation	W1	Mathematical modelling of chemical plants and processes; computer simulation; introduction to numerical optimization techniques. Recommended Prerequisite: All of CHBE 345, CHBE 376. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: Fourth-year standing in BASc.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
CHBE_V 476-T1A	CHBE_V	476	T1A	Advanced Process Engineering and Simulation	W1	Mathematical modelling of chemical plants and processes; computer simulation; introduction to numerical optimization techniques. Recommended Prerequisite: All of CHBE 345, CHBE 376. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: Fourth-year standing in BASc.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
CHBE_V 477-201	CHBE_V	477	201	Fuel Cell and Electrochemical Engineering	W2	Stoichiometry, thermodynamics and kinetics of electrode reactions; conductivity and mass transport in electrolytes; material, energy and voltage balances; design of electrosynthesis, electrorecovery of metals, and energy generation of batteries and fuel cells. Credit will be granted for only one of CHBE 477, CHBE 577. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of CHBE 220, CHBE 241, CHBE 346 for students enrolled in CHBE or fourth-year standing in BASc.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHBE_V 478-201	CHBE_V	478	201	Polymer Science and Processing	W2	Introduction to polymer and biopolymer chemistry, properties, processing and technological applications. Recommended Prerequisite: One of CHEM 260, CHBE 251 or equivalent. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing in BASc or BSc.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHBE_V 481-101	CHBE_V	481	101	Biological Engineering and Bio-Manufacturing II	W1	Bioprocess flowsheeting; production-scale fermenter design; product recovery and purification; bioseparations; chromatography; viral inactivation and removal; process validation. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE381	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 481-T1A	CHBE_V	481	T1A	Biological Engineering and Bio-Manufacturing II	W1	Bioprocess flowsheeting; production-scale fermenter design; product recovery and purification; bioseparations; chromatography; viral inactivation and removal; process validation. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE381	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
CHBE_V 482-201	CHBE_V	482	201	Energy Systems Modelling, Simulation and Optimization	W2	Synthesis, design and simulation of separation and reaction systems. Steady state and dynamic simulation. Application to energy systems optimization. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: All of CHBE 345, CHBE 355, CHBE 376. Or fourth-year standing in BASc. or BSc.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
CHBE_V 482-T2A	CHBE_V	482	T2A	Energy Systems Modelling, Simulation and Optimization	W2	Synthesis, design and simulation of separation and reaction systems. Steady state and dynamic simulation. Application to energy systems optimization. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: All of CHBE 345, CHBE 355, CHBE 376. Or fourth-year standing in BASc. or BSc.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
CHBE_V 483-101	CHBE_V	483	101	Energy Engineering for Climate Change and Sustainability	W1	Supply and use of conventional and alternative fuels and energy. Design and operation of unit operations for processing of fossil fuels, biomass, and other energy sources. Environmental considerations of energy use. that address climate change and sustainability (water usage, environmental footprint, resource use, etc.). Credit will be granted for only one of CHBE 483, CHBE 583. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Third-year standing in BASc or BSc.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHBE_V 485-101	CHBE_V	485	101	Air Pollution Prevention and Air Quality Engineering	W1	Fate of air-born chemicals and the associated impacts of air pollutants on health, visibility, smog formation, ozone depletion and global warming; air quality and emission standards; atmospheric dispersion of air pollutants; prevention and control technologies for particulates, SOx, NOx, VOCs, and CO2. Credit will be granted for only one of CHBE 485, CHBE 475 or CHBE 585. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: Third-year standing in BASc. or BSc.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHBE_V 485-T1A	CHBE_V	485	T1A	Air Pollution Prevention and Air Quality Engineering	W1	Fate of air-born chemicals and the associated impacts of air pollutants on health, visibility, smog formation, ozone depletion and global warming; air quality and emission standards; atmospheric dispersion of air pollutants; prevention and control technologies for particulates, SOx, NOx, VOCs, and CO2. Credit will be granted for only one of CHBE 485, CHBE 475 or CHBE 585. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: Third-year standing in BASc. or BSc.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 486-201	CHBE_V	486	201	Waste Mitigation and Processing for Resource Recovery	W2	How chemical and biological waste impact the environment. Physico-chemical, thermal, and biological methods for minimizing, isolating and sustainably treating solid waste and wastewater, including conversion to bioproducts/ industrial products, energy and clean water. Recommended Prerequisite: All of CHBE 241, CHBE 244, CHBE 370. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Third-year standing in BASc. or BSc.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
CHBE_V 487-202	CHBE_V	487	202	Interfacial Phenomena	W2	Outline of the physics and chemistry of interfaces; discussion of the part played by surface effects in technical processes. Credit will be granted for only one of CHBE 357, CHBE 487, CHBE 587, FNH 419 or FOOD 519. Recommended Prerequisite: One of CHBE 241, FNH 300. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing in BASc.	In Person Learning	Arranged	Arranged
CHBE_V 488-201	CHBE_V	488	201	Carbon Capture, Conversion and Sequestration Technologies	W2	Examination of carbon capture technologies, and CO2 conversion and sequestration options. Technical foundations on carbon cycle, thermodynamics, transport, absorption, adsorption, sequestration, mineralization and conversion. Analysis of cases in the context of technology, policy and regulatory framework. Credit will be granted for only one of CHBE 488 or CHBE 588. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of CHBE 244, MTRL 252 and one of CHBE 251, CIVL 215, MTRL 263.	In Person Learning	Mon	3:00 p.m. - 4:30 p.m.
CHBE_V 488-T2A	CHBE_V	488	T2A	Carbon Capture, Conversion and Sequestration Technologies	W2	Examination of carbon capture technologies, and CO2 conversion and sequestration options. Technical foundations on carbon cycle, thermodynamics, transport, absorption, adsorption, sequestration, mineralization and conversion. Analysis of cases in the context of technology, policy and regulatory framework. Credit will be granted for only one of CHBE 488 or CHBE 588. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of CHBE 244, MTRL 252 and one of CHBE 251, CIVL 215, MTRL 263.	In Person Learning	Tue	4:30 p.m. - 6:00 p.m.
CHBE_V 491-101	CHBE_V	491	101	Thesis Proposal	W1	Literature searching, planning, equipment design, experimental design for an individual research project leading to a written proposal and oral presentation. This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: All of CHBE 362, CHBE 366.	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
CHBE_V 492-201	CHBE_V	492	201	Thesis	W2	Research project under the direction of a staff member. This course is not eligible for Credit/D/Fail grading. [0-8-0] Prerequisite: [CHBE491]	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.

CHBE_V 493-101	CHBE_V	493		101	Thesis Proposal-Environmental Topic	W1	Literature search, planning, equipment design for an individual research project leading to a written proposal and oral presentation. Topic to be chosen from a selection of environmental topics offered by the department. This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: [CHBE362, CHBE364]	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
CHBE_V 494-201	CHBE_V	494		201	Thesis-Environmental Topic	W2	Environmental engineering research topic. This course is not eligible for Credit/D/Fail grading. [0-8-0] Prerequisite: [CHBE493]	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
CHBE_V 495-101	CHBE_V	495		101	Thesis Proposal-Biotechnology Topic	W1	Literature search, planning, equipment design for an individual research project leading to a written proposal and oral presentation. Topic to be chosen from a selection of biotechnology topics offered by the department. This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: [CHBE362, CHBE365]	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
CHBE_V 496-201	CHBE_V	496		201	Thesis Biotechnology Topic	W2	Biotechnological engineering research topic. This course is not eligible for Credit/D/Fail grading. [0-8-0] Prerequisite: [CHBE495]	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
CHBE_V 497-A_001	CHBE_V	497	A	A_001	Topics in Chemical and Biological Engineering.	W1-2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
CHBE_V 497-C_101	CHBE_V	497	C	C_101	Topics in Chemical and Biological Engineering.	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Fri	11:00 a.m. - 12:00 p.m.
CHBE_V 497-DNU_A_001	CHBE_V	497	A	DNU_A_001	Topics in Chemical and Biological Engineering.	W2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 502-201	CHBE_V	502		201	Biomass Fractionation Chemistry	W2	Extraction of soluble compounds and macromolecules. Chemical and technical processes in production of pulp. Bleaching. Fiber production from woody and herbaceous biomass. Production of reactive intermediates. Credit will be granted for only one of CHBE 402, CHBE 502 or GBPR 502.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CHBE_V 505-101	CHBE_V	505		101	Introduction to Chemical Engineering for Non-Chemical Engineers	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: Supervisor and instructor approval required.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHBE_V 505-201	CHBE_V	505		201	Introduction to Chemical Engineering for Non-Chemical Engineers	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Supervisor and instructor approval required.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHBE_V 549-001	CHBE_V	549		001	Master's Thesis for M.Sc.	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 549-101	CHBE_V	549		101	Master's Thesis for M.Sc.	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 549-201	CHBE_V	549		201	Master's Thesis for M.Sc.	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 550-A_101	CHBE_V	550	A	A_101	Advanced Reactor Design	W1	Topics vary from year to year, and may include kinetics of fluid-solid reactions of single particles, packed, moving, fluidized and transported bed reactors; rotary kilns; gas-liquid reaction kinetics and reactor design; reactor design for gas-liquid-solid and non-catalytic processes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
CHBE_V 551-201	CHBE_V	551		201	Engineering Thermodynamics and Statistical Mechanics	W2	Classical thermodynamic relations from a molecular perspective. Pressure-volume- temperature relations; chemical equilibria by Gibbs' method; vapor-liquid equilibria; thermodynamic calculations based on macroscopic and statistical methods; nonequilibrium processes; molecular simulations. Credit will be granted for only one of CHBE 451 or CHBE 551. [3-0-2*]	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
CHBE_V 552-201	CHBE_V	552		201	Optimization Methods	W2	Basic concepts of optimization and structure of mathematical models. Gradient methods. Direct search methods. Gauss-Newton method for parameter optimization in models described by ordinary and partial differential equations. Constrained optimization. Statistical inferences. Design of experiments. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:30 a.m. - 1:00 p.m.
CHBE_V 553-A_101	CHBE_V	553	A	A_101	Mathematical Operations in Chemical Engineering	W1	Topics vary from year to year. Amongst these will be dimensional analysis and model theory; treatment and interpretation of chemical engineering data; formulation and solution of differential and finite difference equations; graphical, numerical and statistical methods. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHBE_V 553-A_201	CHBE_V	553	A	A_201	Mathematical Operations in Chemical Engineering	W2	Topics vary from year to year. Amongst these will be dimensional analysis and model theory; treatment and interpretation of chemical engineering data; formulation and solution of differential and finite difference equations; graphical, numerical and statistical methods. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHBE_V 554-101	CHBE_V	554		101	Momentum, Heat and Mass Transfer	W1	Prediction of velocity, temperature, and concentration profiles for flowing fluids; unifying concepts and analogies in momentum, heat, and mass transport; streamline flow and turbulence, molecular and eddy conduction and diffusion, boundary layers, smooth and rough conduits and other boundaries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
CHBE_V 554-201	CHBE_V	554		201	Momentum, Heat and Mass Transfer	W2	Prediction of velocity, temperature, and concentration profiles for flowing fluids; unifying concepts and analogies in momentum, heat, and mass transport; streamline flow and turbulence, molecular and eddy conduction and diffusion, boundary layers, smooth and rough conduits and other boundaries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 554-A_201	CHBE_V	554	A	A_201	Momentum, Heat and Mass Transfer	W2	Prediction of velocity, temperature, and concentration profiles for flowing fluids; unifying concepts and analogies in momentum, heat, and mass transport; streamline flow and turbulence, molecular and eddy conduction and diffusion, boundary layers, smooth and rough conduits and other boundaries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

CHBE_V 559-C_101	CHBE_V	559	C	C_101	Topics in Chemical Engineering	W1	A discussion of some aspects of modern Chemical Engineering. Subject matter varies each year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 559-J_101	CHBE_V	559	J	J_101	Topics in Chemical Engineering	W1	A discussion of some aspects of modern Chemical Engineering. Subject matter varies each year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHBE_V 560-201	CHBE_V	560		201	Biological Engineering and Bio-Manufacturing	W2	Biological process engineering in the fields of biotechnology and biomedical engineering; enzymatic and cellular kinetics; cell culture, bioreactor mass transport and process development; bioreactor design and operation. Critical analysis of recent biological engineering research articles. Credit will be granted for only one of CHBE 381 or CHBE 560. This course is not eligible for Credit/D/Fail grading. [3-0-2]	In Person Learning	Fri	10:00 a.m. - 11:30 a.m.
CHBE_V 560-T2A	CHBE_V	560		T2A	Biological Engineering and Bio-Manufacturing	W2	Biological process engineering in the fields of biotechnology and biomedical engineering; enzymatic and cellular kinetics; cell culture, bioreactor mass transport and process development; bioreactor design and operation. Critical analysis of recent biological engineering research articles. Credit will be granted for only one of CHBE 381 or CHBE 560. This course is not eligible for Credit/D/Fail grading. [3-0-2]	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 563-201	CHBE_V	563		201	Applied Heterogeneous Catalysis	W2	Techniques for characterizing catalysts and their surfaces. Commercial methods of preparing catalysts. Chemistry of catalytic reactions and the impact of catalyst properties, mechanisms and kinetics on reactor engineering. Applications of catalytic oxidations, hydrogenations, C-C bond formation and cracking. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHBE_V 564-201	CHBE_V	564		201	Industrial Biotechnology Laboratory	W2	Modern bioreactor technology, upstream and downstream processing of biotechnology products. Credit will be granted for only one of CHBE 564 or CHBE 419. This course is not eligible for Credit/D/Fail grading. [1-4-0]	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
CHBE_V 564-L2A	CHBE_V	564		L2A	Industrial Biotechnology Laboratory	W2	Modern bioreactor technology, upstream and downstream processing of biotechnology products. Credit will be granted for only one of CHBE 564 or CHBE 419. This course is not eligible for Credit/D/Fail grading. [1-4-0]	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.
CHBE_V 565-101	CHBE_V	565		101	Advanced Process Control	W1	Discrete-time chemical system modelling; model-based predictive control; predictive controller design; analysis of design parameters; controller stability; robustness and performance analysis; selected topics from current developments in the literature. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
CHBE_V 572-201	CHBE_V	572		201	Technologies for Human and Environmental Health	W2	Fundamentals of cutting-edge bioanalysis technologies with an emphasis on applications in health and the environment. Concepts and calculations involving: separations, mass transfer, reaction kinetics, mixing, electrochemistry, and others. Analysis tools employed include: limits of detection, sensitivity, specificity, and other measures. Credit will be granted for only one of CHBE 472 or CHBE 572. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.
CHBE_V 573-201	CHBE_V	573		201	Environmental Engineering and Sustainability Leadership	W2	Topics may include: Life cycle assessment, circular economy, system dynamics modelling, design thinking, systems thinking, traditional ecological knowledge, adaptive and evolutionary leadership, and relationality. Credit will be granted for only one of CHBE 473 or CHBE 573. [3-0-0]	In Person Learning	Mon	3:00 p.m. - 4:30 p.m.
CHBE_V 577-201	CHBE_V	577		201	Electrochemical Science, Engineering and Technology	W2	Electrochemical interfaces; electrode reactions; thermodynamics; kinetics and transport processes in electrochemical systems; experimental techniques. Electrochemical reactors and processes; modelling, design and economics. Electrochemical technologies; electrosynthesis, batteries and fuel cells. Electro-metallurgy; electrowinning and refining of metals, corrosion, leaching and cementation. Credit will be granted for only one of CHBE 477 or CHBE 577. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHBE_V 583-101	CHBE_V	583		101	Energy Engineering for Climate Change and Sustainability	W1	Supply and use of conventional and alternative fuels and energy. Design and operation of unit operations for processing of fossil fuels, biomass, and other energy sources. Environmental considerations of energy use that address climate change and sustainability (water usage, environmental footprint, resource use, etc.). Credit will be granted for only one of CHBE 483 or CHBE 583. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHBE_V 585-101	CHBE_V	585		101	Air Pollution Prevention and Air Quality Engineering	W1	Fate of air-born chemicals and the associated impacts of air pollutants on health, visibility, smog formation, ozone depletion and global warming; air quality and emission standards; atmospheric dispersion of air pollutants; prevention and control technologies for particulates, SOx, NOx, VOCs, and CO2. Credit will be granted for only one of CHBE 475, CHBE 485, or CHBE 585. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHBE_V 585-T1A	CHBE_V	585		T1A	Air Pollution Prevention and Air Quality Engineering	W1	Fate of air-born chemicals and the associated impacts of air pollutants on health, visibility, smog formation, ozone depletion and global warming; air quality and emission standards; atmospheric dispersion of air pollutants; prevention and control technologies for particulates, SOx, NOx, VOCs, and CO2. Credit will be granted for only one of CHBE 475, CHBE 485, or CHBE 585. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CHBE_V 587-201	CHBE_V	587		201	Interfacial Phenomena	W2	Outline of the physics and chemistry of interfaces; discussion of the part played by surface effects in technical processes. Credit will be granted for only one of CHBE 357, CHBE 487, CHBE 587, FNH 419 or FOOD 519.	In Person Learning	Arranged	Arranged
CHBE_V 588-201	CHBE_V	588		201	Carbon Capture, Conversion and Sequestration Technologies	W2	Credit will be granted for only one of CHBE 488 or CHBE 588. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Mon	3:00 p.m. - 4:30 p.m.
CHBE_V 588-T2A	CHBE_V	588		T2A	Carbon Capture, Conversion and Sequestration Technologies	W2	Credit will be granted for only one of CHBE 488 or CHBE 588. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Tue	4:30 p.m. - 6:00 p.m.
CHBE_V 596-001	CHBE_V	596		001	Engineering Report	W1-2	For M.Eng. students. Carry out a literature review, conduct a research or design project and prepare an engineering report under the supervision of a faculty member. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 596-101	CHBE_V	596		101	Engineering Report	W1	For M.Eng. students. Carry out a literature review, conduct a research or design project and prepare an engineering report under the supervision of a faculty member. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

CHBE_V 596-201	CHBE_V	596	201	Engineering Report	W2	For M.Eng. students. Carry out a literature review, conduct a research or design project and prepare an engineering report under the supervision of a faculty member. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 597-001	CHBE_V	597	001	M.A.Sc. Thesis Proposal Development	W1-2	Techniques for preparation of a critical literature review and focussed research proposal for M.A.Sc. candidates. Students perform oral and written critiques of published research in their area of study, define research questions and hypotheses, and develop a focussed research proposal. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CHBE_V 598-001	CHBE_V	598	001	Master's Seminar	W1-2	Current topics in chemical and biological engineering research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CHBE_V 598-101	CHBE_V	598	101	Master's Seminar	W1	Current topics in chemical and biological engineering research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 598-201	CHBE_V	598	201	Master's Seminar	W2	Current topics in chemical and biological engineering research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 599-001	CHBE_V	599	001	Thesis	W1-2	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 599-101	CHBE_V	599	101	Thesis	W1	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 599-201	CHBE_V	599	201	Thesis	W2	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 697-001	CHBE_V	697	001	Ph.D. Thesis Proposal Development	W1-2	Techniques for preparation of a critical literature review and focussed research proposal for Ph.D. candidates. Students perform oral and written critiques of published research in their area of study, define research questions and hypotheses, and develop a focussed research proposal. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CHBE_V 698-001	CHBE_V	698	001	Doctoral Seminar	W1-2	Current topics in chemical and biological engineering research. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CHBE_V 698-101	CHBE_V	698	101	Doctoral Seminar	W1	Current topics in chemical and biological engineering research. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 698-201	CHBE_V	698	201	Doctoral Seminar	W2	Current topics in chemical and biological engineering research. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHBE_V 699-001	CHBE_V	699	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
CHBE_V 699-101	CHBE_V	699	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
CHBE_V 699-201	CHBE_V	699	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
CHEM_V 100-223	CHEM_V	100	223	Foundations of Chemistry	W2	Atomic and molecular properties, chemical reactions, bonding, nomenclature, kinetics, equilibrium processes, acids and bases, oxidation and reduction. Intended for students who do not receive a satisfactory score on the UBC Chemistry Basic Skills Test, and need to establish a foundation of chemistry skills before proceeding to other first year chemistry courses. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Not open to students with credit for Chemistry 12. Permission of the department head.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CHEM_V 111-112	CHEM_V	111	112	Structure, Bonding, and Equilibrium in Chemistry	W1	Fundamentals of bonding theories, structural chemistry and equilibrium with applications relevant to modern society. [3-3-1] Prerequisite: Not open to students with credit for CHEM 12. A satisfactory score on the UBC Chemistry Basic Skills Test.	In Person Learning	Thu	12:30 p.m. - 1:30 p.m.
CHEM_V 111-L02	CHEM_V	111	L02	Structure, Bonding, and Equilibrium in Chemistry	W1	Fundamentals of bonding theories, structural chemistry and equilibrium with applications relevant to modern society. [3-3-1] Prerequisite: Not open to students with credit for CHEM 12. A satisfactory score on the UBC Chemistry Basic Skills Test.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
CHEM_V 111-L06	CHEM_V	111	L06	Structure, Bonding, and Equilibrium in Chemistry	W1	Fundamentals of bonding theories, structural chemistry and equilibrium with applications relevant to modern society. [3-3-1] Prerequisite: Not open to students with credit for CHEM 12. A satisfactory score on the UBC Chemistry Basic Skills Test.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
CHEM_V 111-L07	CHEM_V	111	L07	Structure, Bonding, and Equilibrium in Chemistry	W1	Fundamentals of bonding theories, structural chemistry and equilibrium with applications relevant to modern society. [3-3-1] Prerequisite: Not open to students with credit for CHEM 12. A satisfactory score on the UBC Chemistry Basic Skills Test.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
CHEM_V 111-XMT	CHEM_V	111	XMT	Structure, Bonding, and Equilibrium in Chemistry	W1	Fundamentals of bonding theories, structural chemistry and equilibrium with applications relevant to modern society. [3-3-1] Prerequisite: Not open to students with credit for CHEM 12. A satisfactory score on the UBC Chemistry Basic Skills Test.	In Person Learning	Arranged	Arranged
CHEM_V 115-L01	CHEM_V	115	L01	Introductory Chemical Laboratory I	W1	An introduction to the principles and techniques of the chemistry laboratory, [0-3-0] Prerequisite: One of CHEM 110, CHEM 120.	In Person Learning	Arranged	Arranged







CHEM_V 135-L06	CHEM_V	135	L06	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L07	CHEM_V	135	L07	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L08	CHEM_V	135	L08	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L09	CHEM_V	135	L09	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L22	CHEM_V	135	L22	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L23	CHEM_V	135	L23	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L25	CHEM_V	135	L25	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L26	CHEM_V	135	L26	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L27	CHEM_V	135	L27	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L28	CHEM_V	135	L28	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 135-L29	CHEM_V	135	L29	Introductory Chemical Laboratory II	W2	An introduction to the principles and techniques of the chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 111, CHEM 115, CHEM 121, CHEM 141.	In Person Learning	Arranged	Arranged
CHEM_V 141-101	CHEM_V	141	101	Chemical Bonding, Molecular Structure and Properties for Lab Sciences	W1	Bonding theories, their predictions, experimental tests, and consequences regarding chemical structure and observable properties. Applications relevant to modern society are emphasized. For students interested in lab-focused sciences such as Chemistry, Physics, Biochemistry, Microbiology and related disciplines. Restricted to students in the Faculty of Science. [3-3-0] Prerequisite: One of CHEM 12, CHEM 100. Equivalency: CHEM121	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHEM_V 141-L16	CHEM_V	141	L16	Chemical Bonding, Molecular Structure and Properties for Lab Sciences	W1	Bonding theories, their predictions, experimental tests, and consequences regarding chemical structure and observable properties. Applications relevant to modern society are emphasized. For students interested in lab-focused sciences such as Chemistry, Physics, Biochemistry, Microbiology and related disciplines. Restricted to students in the Faculty of Science. [3-3-0] Prerequisite: One of CHEM 12, CHEM 100. Equivalency: CHEM121	In Person Learning	Arranged	Arranged
CHEM_V 141-L17	CHEM_V	141	L17	Chemical Bonding, Molecular Structure and Properties for Lab Sciences	W1	Bonding theories, their predictions, experimental tests, and consequences regarding chemical structure and observable properties. Applications relevant to modern society are emphasized. For students interested in lab-focused sciences such as Chemistry, Physics, Biochemistry, Microbiology and related disciplines. Restricted to students in the Faculty of Science. [3-3-0] Prerequisite: One of CHEM 12, CHEM 100. Equivalency: CHEM121	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
CHEM_V 141-L18	CHEM_V	141	L18	Chemical Bonding, Molecular Structure and Properties for Lab Sciences	W1	Bonding theories, their predictions, experimental tests, and consequences regarding chemical structure and observable properties. Applications relevant to modern society are emphasized. For students interested in lab-focused sciences such as Chemistry, Physics, Biochemistry, Microbiology and related disciplines. Restricted to students in the Faculty of Science. [3-3-0] Prerequisite: One of CHEM 12, CHEM 100. Equivalency: CHEM121	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
CHEM_V 141-L19	CHEM_V	141	L19	Chemical Bonding, Molecular Structure and Properties for Lab Sciences	W1	Bonding theories, their predictions, experimental tests, and consequences regarding chemical structure and observable properties. Applications relevant to modern society are emphasized. For students interested in lab-focused sciences such as Chemistry, Physics, Biochemistry, Microbiology and related disciplines. Restricted to students in the Faculty of Science. [3-3-0] Prerequisite: One of CHEM 12, CHEM 100. Equivalency: CHEM121	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
CHEM_V 154-111	CHEM_V	154	111	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 154-133	CHEM_V	154	133	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHEM_V 154-177	CHEM_V	154	177	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHEM_V 154-9AR	CHEM_V	154	9AR	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Arranged	Arranged

CHEM_V 154-L01	CHEM_V	154	L01	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
CHEM_V 154-L04	CHEM_V	154	L04	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
CHEM_V 154-L1A	CHEM_V	154	L1A	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
CHEM_V 154-L1B	CHEM_V	154	L1B	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
CHEM_V 154-L1C	CHEM_V	154	L1C	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
CHEM_V 154-L4A	CHEM_V	154	L4A	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
CHEM_V 154-L4B	CHEM_V	154	L4B	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
CHEM_V 154-L4C	CHEM_V	154	L4C	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
CHEM_V 154-LAR	CHEM_V	154	LAR	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Arranged	Arranged
CHEM_V 154-XMT	CHEM_V	154	XMT	Chemistry for Engineering	W1	Chemical bonding, properties of matter. Chemical thermodynamics with applications to phase equilibria, aqueous equilibria and electrochemistry. Processes at surfaces. [3-3*-0] Prerequisite: CHEM 12.	In Person Learning	Arranged	Arranged
CHEM_V 203-101	CHEM_V	203	101	Introduction to Organic Chemistry	W1	Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Credit will be granted for only one of CHEM 203 or CHEM 223, CHEM 225 or CHEM 233, 235. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CHEM_V 203-L06	CHEM_V	203	L06	Introduction to Organic Chemistry	W1	Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Credit will be granted for only one of CHEM 203 or CHEM 223, CHEM 225 or CHEM 233, 235. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
CHEM_V 203-L07	CHEM_V	203	L07	Introduction to Organic Chemistry	W1	Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Credit will be granted for only one of CHEM 203 or CHEM 223, CHEM 225 or CHEM 233, 235. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
CHEM_V 203-L08	CHEM_V	203	L08	Introduction to Organic Chemistry	W1	Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Credit will be granted for only one of CHEM 203 or CHEM 223, CHEM 225 or CHEM 233, 235. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
CHEM_V 203-L09	CHEM_V	203	L09	Introduction to Organic Chemistry	W1	Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Credit will be granted for only one of CHEM 203 or CHEM 223, CHEM 225 or CHEM 233, 235. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
CHEM_V 203-XMT	CHEM_V	203	XMT	Introduction to Organic Chemistry	W1	Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Credit will be granted for only one of CHEM 203 or CHEM 223, CHEM 225 or CHEM 233, 235. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 205-203	CHEM_V	205	203	Physical Chemistry	W2	Chemical kinetics and thermodynamics and spectroscopy useful in biological, medical, agricultural, earth, and related sciences. [3-0-0] Prerequisite: Either (a) SCIE 001 or (b) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of CHEM 130, CHEM 123, CHEM 154.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CHEM_V 205-210	CHEM_V	205	210	Physical Chemistry	W2	Chemical kinetics and thermodynamics and spectroscopy useful in biological, medical, agricultural, earth, and related sciences. [3-0-0] Prerequisite: Either (a) SCIE 001 or (b) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of CHEM 130, CHEM 123, CHEM 154.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.





CHEM_V 211-LC5	CHEM_V	211	LC5	Introduction to Chemical Analysis	W1	Quantitative chemical analysis; chemical and physical principles of spectrophotometry, potentiometry, and chromatography. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 211-LD2	CHEM_V	211	LD2	Introduction to Chemical Analysis	W1	Quantitative chemical analysis; chemical and physical principles of spectrophotometry, potentiometry, and chromatography. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 211-LD3	CHEM_V	211	LD3	Introduction to Chemical Analysis	W1	Quantitative chemical analysis; chemical and physical principles of spectrophotometry, potentiometry, and chromatography. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 211-LD4	CHEM_V	211	LD4	Introduction to Chemical Analysis	W1	Quantitative chemical analysis; chemical and physical principles of spectrophotometry, potentiometry, and chromatography. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 211-LD5	CHEM_V	211	LD5	Introduction to Chemical Analysis	W1	Quantitative chemical analysis; chemical and physical principles of spectrophotometry, potentiometry, and chromatography. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 211-XMT	CHEM_V	211	XMT	Introduction to Chemical Analysis	W1	Quantitative chemical analysis; chemical and physical principles of spectrophotometry, potentiometry, and chromatography. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 211-YMT	CHEM_V	211	YMT	Introduction to Chemical Analysis	W2	Quantitative chemical analysis; chemical and physical principles of spectrophotometry, potentiometry, and chromatography. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.	In Person Learning	Arranged	Arranged
CHEM_V 213-201	CHEM_V	213	201	Organic Chemistry	W2	Spectroscopy of organic compounds. Mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-carbon bond formation; functional group interconversion. Preference will be given to students in Chemistry or Biochemistry specializations. [3-0-0] Prerequisite: Either (a) one of CHEM 203, CHEM 223 or (b) a score of 76% or higher in CHEM 233.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CHEM_V 215-L01	CHEM_V	215	L01	Introductory Analytical Chemical Laboratory	W1	An introduction to the principles and techniques in the analytical chemistry laboratory. [0-3-0] Prerequisite: CHEM 210 and one of CHEM 123, CHEM 135.	In Person Learning	Arranged	Arranged
CHEM_V 215-L02	CHEM_V	215	L02	Introductory Analytical Chemical Laboratory	W2	An introduction to the principles and techniques in the analytical chemistry laboratory. [0-3-0] Prerequisite: CHEM 210 and one of CHEM 123, CHEM 135.	In Person Learning	Arranged	Arranged
CHEM_V 218-212	CHEM_V	218	212	Fundamentals of Reactivity in Inorganic Chemistry	W2	Chemical reactivity of inorganic systems: oxidation/reduction chemistry; multiply-bonded systems; main group chemistry. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: CHEM 208.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHEM_V 218-T07	CHEM_V	218	T07	Fundamentals of Reactivity in Inorganic Chemistry	W2	Chemical reactivity of inorganic systems: oxidation/reduction chemistry; multiply-bonded systems; main group chemistry. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: CHEM 208.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
CHEM_V 223-101	CHEM_V	223	101	Introduction to Organic Chemistry (Lecture)	W1	Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Students should consult the Credit Exclusion List for credit exclusions relating to second-year organic chemistry courses. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, SCIE 001.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CHEM_V 225-L06	CHEM_V	225	L06	Introductory Synthetic Chemical Laboratory	W1	An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 123, CHEM 135.	In Person Learning	Arranged	Arranged
CHEM_V 225-L07	CHEM_V	225	L07	Introductory Synthetic Chemical Laboratory	W1	An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 123, CHEM 135.	In Person Learning	Arranged	Arranged
CHEM_V 225-L08	CHEM_V	225	L08	Introductory Synthetic Chemical Laboratory	W1	An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 123, CHEM 135.	In Person Learning	Arranged	Arranged
CHEM_V 225-L09	CHEM_V	225	L09	Introductory Synthetic Chemical Laboratory	W1	An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [0-3-0] Prerequisite: One of CHEM 123, CHEM 135.	In Person Learning	Arranged	Arranged
CHEM_V 233-103	CHEM_V	233	103	Organic Chemistry for the Biological Sciences	W1	Reactions and properties of carbonyl compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, SCIE 001.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CHEM_V 233-110	CHEM_V	233	110	Organic Chemistry for the Biological Sciences	W1	Reactions and properties of carbonyl compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, SCIE 001.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 233-122	CHEM_V	233	122	Organic Chemistry for the Biological Sciences	W1	Reactions and properties of carbonyl compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, SCIE 001.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CHEM_V 233-133	CHEM_V	233	133	Organic Chemistry for the Biological Sciences	W1	Reactions and properties of carbonyl compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, SCIE 001.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHEM_V 233-199	CHEM_V	233	199	Organic Chemistry for the Biological Sciences	W1	Reactions and properties of carbonyl compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, SCIE 001.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.



CHEM_V 250-111	CHEM_V	250	111	Inorganic Chemistry for Engineers	W1	Chemistry of selected groups of inorganic compounds, considered in relation to industrial processes. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, CHEM 154, SCIE 001.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 260-109	CHEM_V	260	109	Organic Chemistry for Engineers	W1	A description of the properties and reactions of organic compounds. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, CHEM 154, SCIE 001.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHEM_V 300-109	CHEM_V	300	109	Communicating Chemistry	W1	Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
CHEM_V 300-110	CHEM_V	300	110	Communicating Chemistry	W1	Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 300-209	CHEM_V	300	209	Communicating Chemistry	W2	Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHEM_V 300-211	CHEM_V	300	211	Communicating Chemistry	W2	Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.
CHEM_V 300-GP1	CHEM_V	300	GP1	Communicating Chemistry	W1	Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing	In Person Learning	Arranged	Arranged
CHEM_V 300-GP2	CHEM_V	300	GP2	Communicating Chemistry	W2	Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing	In Person Learning	Arranged	Arranged
CHEM_V 301-109	CHEM_V	301	109	Aqueous Environmental Chemistry	W1	Properties and composition of natural waters, including gas and solid equilibria, pH and acidification, redox chemistry, complexation, corrosion, ion exchange, colloids and microbial transformations. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, CHBE 220. and Third year standing.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 302-209	CHEM_V	302	209	Atmospheric Environmental Chemistry	W2	Introduction to structure, composition and chemical processes occurring in Earth's atmosphere, including interactions with solar radiation, stratospheric ozone layer, photochemical smog and acid rain. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, CHBE 220. and Third year standing.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHEM_V 304-111	CHEM_V	304	111	Fundamentals of Thermodynamics and Statistical Mechanics	W1	Principles of chemical thermodynamics; introduction to statistical mechanics; phase equilibria; electrochemistry. [3-0-1] Prerequisite: One of CHEM 123, CHEM 130 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CHEM_V 304-T07	CHEM_V	304	T07	Fundamentals of Thermodynamics and Statistical Mechanics	W1	Principles of chemical thermodynamics; introduction to statistical mechanics; phase equilibria; electrochemistry. [3-0-1] Prerequisite: One of CHEM 123, CHEM 130 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
CHEM_V 304-XMT	CHEM_V	304	XMT	Fundamentals of Thermodynamics and Statistical Mechanics	W1	Principles of chemical thermodynamics; introduction to statistical mechanics; phase equilibria; electrochemistry. [3-0-1] Prerequisite: One of CHEM 123, CHEM 130 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Arranged	Arranged
CHEM_V 305-211	CHEM_V	305	211	Biophysical Chemistry	W2	Diffusion and transport phenomena; interaction of radiation and matter. Methods for determining molecular weight, size, and shape of molecules in solution. [3-0-0] Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253 and either (a) a score of 76% or higher in CHEM 205 or (b) CHEM 304 or (c) PHYS 203.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CHEM_V 311-299	CHEM_V	311	299	Instrumental Analytical Chemistry	W2	Theory, design, and application of instrumental methods of chemical analysis including spectroscopy, mass spectrometry, electroanalysis, and chemical separations. [3-0-1] Prerequisite: One of CHEM 210, CHEM 211.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 311-T02	CHEM_V	311	T02	Instrumental Analytical Chemistry	W2	Theory, design, and application of instrumental methods of chemical analysis including spectroscopy, mass spectrometry, electroanalysis, and chemical separations. [3-0-1] Prerequisite: One of CHEM 210, CHEM 211.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
CHEM_V 311-XMT	CHEM_V	311	XMT	Instrumental Analytical Chemistry	W2	Theory, design, and application of instrumental methods of chemical analysis including spectroscopy, mass spectrometry, electroanalysis, and chemical separations. [3-0-1] Prerequisite: One of CHEM 210, CHEM 211.	In Person Learning	Arranged	Arranged
CHEM_V 312-199	CHEM_V	312	199	Introduction to Quantum Mechanics and Spectroscopy	W1	Principles of quantum mechanics; atomic wavefunctions; angular momentum; spin; atomic term symbols. [3-0-1] Prerequisite: One of CHEM 113, CHEM 123, SCIE 001 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 313-208	CHEM_V	313	208	Advanced Organic Chemistry for the Life Sciences	W2	Chemistry of organic substances having particular relevance to the life sciences. [3-0-0] Prerequisite: CHEM 213.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
CHEM_V 315-L1B	CHEM_V	315	L1B	Chemistry Integrated Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
CHEM_V 315-L1C	CHEM_V	315	L1C	Chemistry Integrated Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
CHEM_V 315-L3B	CHEM_V	315	L3B	Chemistry Integrated Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Tue	2:00 p.m. - 6:00 p.m.
CHEM_V 315-L3C	CHEM_V	315	L3C	Chemistry Integrated Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Tue	2:00 p.m. - 6:00 p.m.

CHEM_V 315-L5B	CHEM_V	315	L5B	Chemistry Integrated Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 315-L5C	CHEM_V	315	L5C	Chemistry Integrated Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LB1	CHEM_V	315	LB1	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LB3	CHEM_V	315	LB3	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Tue	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LB5	CHEM_V	315	LB5	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LC1	CHEM_V	315	LC1	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LC3	CHEM_V	315	LC3	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Tue	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LC5	CHEM_V	315	LC5	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LM5	CHEM_V	315	LM5	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 315-LM7	CHEM_V	315	LM7	Chemistry Integrated Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 213, CHEM 245.	In Person Learning	Thu	2:00 p.m. - 6:00 p.m.
CHEM_V 318-109	CHEM_V	318	109	Principles of Catalysis	W1	Fundamental aspects of chemical catalysis: kinetic models; catalytic processes in biochemistry and industry; emerging topics in catalysis. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CHEM 218, CHEM 250.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHEM_V 319-162	CHEM_V	319	162	Practical Skills for Chemical Research	W1	The nature of scientific research; practical skills for chemical research; communicating science. Restricted to Honours students with third year standing and, with permission of the department Head, to Major students with satisfactory third year standing. This course is not eligible for Credit/D/Fail grading. [1-0-0.5]	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
CHEM_V 325-113	CHEM_V	325	113	Integrated Chemistry Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Open only to students in Chemistry specializations. [0-8-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 208, CHEM 213, CHEM 245.	In Person Learning	Mon Tue	2:00 p.m. - 6:00 p.m.
CHEM_V 325-115	CHEM_V	325	115	Integrated Chemistry Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Open only to students in Chemistry specializations. [0-8-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 208, CHEM 213, CHEM 245.	In Person Learning	Mon Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 325-135	CHEM_V	325	135	Integrated Chemistry Laboratory I	W1	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Open only to students in Chemistry specializations. [0-8-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 208, CHEM 213, CHEM 245.	In Person Learning	Tue Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 325-213	CHEM_V	325	213	Integrated Chemistry Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Open only to students in Chemistry specializations. [0-8-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 208, CHEM 213, CHEM 245.	In Person Learning	Mon Tue	2:00 p.m. - 6:00 p.m.
CHEM_V 325-215	CHEM_V	325	215	Integrated Chemistry Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Open only to students in Chemistry specializations. [0-8-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 208, CHEM 213, CHEM 245.	In Person Learning	Mon Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 325-235	CHEM_V	325	235	Integrated Chemistry Laboratory I	W2	Principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Open only to students in Chemistry specializations. [0-8-0] Prerequisite: One of CHEM 211, CHEM 215 and all of CHEM 208, CHEM 213, CHEM 245.	In Person Learning	Tue Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 327-212	CHEM_V	327	212	Introduction to Materials Chemistry	W2	Basic principles of materials chemistry: classification; nomenclature; synthetic methods; characterization. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CHEM 208, CHEM 250 and one of CHEM 203, CHEM 223, CHEM 233, CHEM 260.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHEM_V 329-286	CHEM_V	329	286	Research Ethics and Data Analysis Skills	W2	Research ethics; data analysis skills for chemical research. Restricted to Honours students with third year standing and, with permission of the department Head, to Major students with satisfactory third year standing. This course is not eligible for Credit/D/Fail grading. [1-0-0.5]	In Person Learning	Thu	8:00 a.m. - 9:30 a.m.
CHEM_V 330-110	CHEM_V	330	110	Advanced Organic Chemistry	W1	Application of carbonyl group chemistry, cyclization reactions, conformational analysis and rearrangement reactions in organic synthesis. [3-0-0] Prerequisite: CHEM 213.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 335-L1B	CHEM_V	335	L1B	Chemistry Integrated Laboratory II	W1	Further development of principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: CHEM 315.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
CHEM_V 335-L1C	CHEM_V	335	L1C	Chemistry Integrated Laboratory II	W1	Further development of principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. [0-4-0] Prerequisite: CHEM 315.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.



CHEM_V 398-610	CHEM_V	398	610	Co-operative Work Placement I	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the winter term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHEM_V 398-620	CHEM_V	398	620	Co-operative Work Placement I	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the winter term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CHEM_V 399-610	CHEM_V	399	610	Co-operative Work Placement II	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CHEM398]	In Person Learning	Arranged	Arranged
CHEM_V 399-620	CHEM_V	399	620	Co-operative Work Placement II	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CHEM398]	In Person Learning	Arranged	Arranged
CHEM_V 401-299	CHEM_V	401	299	Principles of Spectroscopy	W2	Rotational, vibrational, electronic and magnetic resonance spectroscopy and associated techniques; group theory. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of CHEM 312, PHYS 304.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 402-209	CHEM_V	402	209	Diffraction Methods	W2	Crystal structures; point and space groups; X-ray diffraction, neutron diffraction, electron diffraction of gases and surfaces. Credit will be granted for only one of CHEM 402 or CHEM 514. [3-0-0] Prerequisite: CHEM 208.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 403-201	CHEM_V	403	201	Surface Chemistry and Surface Analysis	W2	Surfaces and phenomena occurring at surfaces and interfaces: adsorption, thermodynamic treatments, technological applications. Methods for characterization and modification of surfaces. Dynamic electrochemistry and its application to understanding fuel cells. [3-0-0] Prerequisite: CHEM 304 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CHEM_V 404-101	CHEM_V	404	101	Computational Chemistry	W1	Application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) SCIE 001 or (b) one of CHEM 123, CHEM 130, CHEM 154 and one of PHYS 106, PHYS 107, PHYS 108, PHYS 117, PHYS 118, PHYS 170 and one of MATH 101, MATH 103, MATH 105, MATH 121, and Third-year standing.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CHEM_V 404-T01	CHEM_V	404	T01	Computational Chemistry	W1	Application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) SCIE 001 or (b) one of CHEM 123, CHEM 130, CHEM 154 and one of PHYS 106, PHYS 107, PHYS 108, PHYS 117, PHYS 118, PHYS 170 and one of MATH 101, MATH 103, MATH 105, MATH 121, and Third-year standing.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CHEM_V 405-110	CHEM_V	405	110	Biophysical Chemistry	W1	Interactions of macromolecules in solution: ligand, antibody and ion binding to macromolecules; thermodynamics of polymer solutions; excluded volume effects; phase separation; partition in two phase polymer solutions. [3-0-0] Prerequisite: One of CHEM 304, CHEM 305, PHYS 203.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 406-101	CHEM_V	406	101	Polymer Chemistry	W1	Structure and availability of monomers; Propagation mechanisms; synthesis of polymers with predetermined properties; measurement and interpretation of physical properties of polymers. [3-0-0] Prerequisite: One of CHEM 213, CHEM 260 and one of CHEM 205, CHEM 304, CHEM 220.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CHEM_V 407-233	CHEM_V	407	233	Statistical Mechanics in Chemistry	W2	Introductory concepts of statistical mechanics and statistical thermodynamics. Applications to chemistry with emphasis on understanding chemical reactivity. Credit will be granted for only one of CHEM 503/CHEM 407 or PHYS 455. [3-0-0] Prerequisite: One of CHEM 304, PHYS 203.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHEM_V 409-199	CHEM_V	409	199	Astrochemistry	W2	Application of physical chemistry concepts and principles to the study of molecules in interstellar media and celestial bodies. Credit will be granted for only one of CHEM 409 or CHEM 509. [3-0-0] Prerequisite: One of CHEM 312, PHYS 304. Students with CHEM 205 with a minimum grade of 76% may be admitted with permission of the instructor.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 410-211	CHEM_V	410	211	Properties of Materials	W2	Electromagnetic, optical, thermal and mechanical properties, and chemical reactivity of solids; electrons in periodic systems: bands, zones; excitations: excitons, phonons, plasmons, polaritons; crystalline order and disorder; ionic conductivity. Credit will be granted for only one of CHEM 410 or CHEM 502. [3-0-0] Prerequisite: One of CHEM 304, PHYS 203 and one of CHEM 312, PHYS 304.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CHEM_V 411-202	CHEM_V	411	202	Synthesis and Chemistry of Natural Products	W2	Methods and tactics for the synthesis of biologically active natural products and analogs, particularly alkaloids, polyketides, steroids and terpenes. Credit will be granted for only one of CHEM 411 or CHEM 566. [3-0-0] Prerequisite: CHEM 460.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CHEM_V 412-266	CHEM_V	412	266	Electronic Structure of Atoms and Molecules	W2	Introduction to variational methods; many-electron systems; semi-empirical methods; perturbation theory; computational methods. [3-0-0] Prerequisite: One of CHEM 312, PHYS 304 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 413-199	CHEM_V	413	199	Bioorganic Chemistry	W1	Enzyme catalysis; mechanistic enzymology; chemistry of cofactors; biosynthetic transformations; natural product biosynthesis; topics in chemical biology. Credit will be granted for only one of CHEM 413, CHEM 569, or BIOC 403. [3-0-0] Prerequisite: CHEM313, CHEM330	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 416-212	CHEM_V	416	212	Physical and Theoretical Organic Chemistry	W2	Energetics and catalysis in organic reactions. Pericyclic reactions. Substituent effects. Linear free energy relationships. Credit will be granted for only one of CHEM 416 or CHEM 563. [3-0-0] Prerequisite: [CHEM313, CHEM330]	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CHEM_V 417-212	CHEM_V	417	212	Nuclear Chemistry and Radiochemistry	W2	Basic treatment of the nucleus, with analogy to concepts in chemistry. Nuclear stabilities and associated radioactive decay processes. Nuclear structure. Applications of radioisotopes in chemistry. The interaction of radiation with matter. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, and Third year standing. CHEM 312 is recommended.	In Person Learning	Arranged	Arranged
CHEM_V 418-209	CHEM_V	418	209	Organometallic Chemistry	W2	The chemistry of compounds containing organic groups directly bonded to metals and metalloids. Emphasis will be placed on the structure and bonding of the compounds and their use in synthetic chemistry. Credit will be granted for only one of CHEM 418 or CHEM 524. [3-0-0] Prerequisite: CHEM 318.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHEM_V 427-122	CHEM_V	427	122	Applications of Materials Chemistry	W1	Contemporary materials chemistry, including design and synthesis of materials for energy, electronics, and health applications. [3-0-0] Prerequisite: CHEM 327.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

CHEM_V 434-266	CHEM_V	434		266	Principles of Chemical Separation	W2	Unified theory of separation science; liquid and gas chromatography; capillary electrophoresis; electrochemical and spectroscopic detection; separation methods coupled with mass spectrometry and tandem mass spectrometry; biochemical applications. Credit will be granted for only one of CHEM 434 or CHEM 534. [3-0-0] Prerequisite: CHEM 311.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 445-A_115	CHEM_V	445	A	A_115	Projects in Experimental Chemistry	W1	Principles of experimental design, practice and problem solving in chemistry, including the opportunity to pursue projects in a research setting. [0-8-0] Prerequisite: One of CHEM 345, CHEM 335. Students satisfying the prerequisite requirement using CHEM 335 must have fourth-year standing in a Chemistry Combined Major specialization.	In Person Learning	Mon Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 445-A_135	CHEM_V	445	A	A_135	Projects in Experimental Chemistry	W1	Principles of experimental design, practice and problem solving in chemistry, including the opportunity to pursue projects in a research setting. [0-8-0] Prerequisite: One of CHEM 345, CHEM 335. Students satisfying the prerequisite requirement using CHEM 335 must have fourth-year standing in a Chemistry Combined Major specialization.	In Person Learning	Mon Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 445-A_RLE	CHEM_V	445	A	A_RLE	Projects in Experimental Chemistry	W1	Principles of experimental design, practice and problem solving in chemistry, including the opportunity to pursue projects in a research setting. [0-8-0] Prerequisite: One of CHEM 345, CHEM 335. Students satisfying the prerequisite requirement using CHEM 335 must have fourth-year standing in a Chemistry Combined Major specialization.	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
CHEM_V 445-B_215	CHEM_V	445	B	B_215	Projects in Experimental Chemistry	W2	Principles of experimental design, practice and problem solving in chemistry, including the opportunity to pursue projects in a research setting. [0-8-0] Prerequisite: One of CHEM 345, CHEM 335. Students satisfying the prerequisite requirement using CHEM 335 must have fourth-year standing in a Chemistry Combined Major specialization.	In Person Learning	Mon Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 445-B_235	CHEM_V	445	B	B_235	Projects in Experimental Chemistry	W2	Principles of experimental design, practice and problem solving in chemistry, including the opportunity to pursue projects in a research setting. [0-8-0] Prerequisite: One of CHEM 345, CHEM 335. Students satisfying the prerequisite requirement using CHEM 335 must have fourth-year standing in a Chemistry Combined Major specialization.	In Person Learning	Mon Wed	2:00 p.m. - 6:00 p.m.
CHEM_V 445-B_RLE	CHEM_V	445	B	B_RLE	Projects in Experimental Chemistry	W2	Principles of experimental design, practice and problem solving in chemistry, including the opportunity to pursue projects in a research setting. [0-8-0] Prerequisite: One of CHEM 345, CHEM 335. Students satisfying the prerequisite requirement using CHEM 335 must have fourth-year standing in a Chemistry Combined Major specialization.	In Person Learning	Arranged	Arranged
CHEM_V 445-C_RLE	CHEM_V	445	C	C_RLE	Projects in Experimental Chemistry	W1-2	Principles of experimental design, practice and problem solving in chemistry, including the opportunity to pursue projects in a research setting. [0-8-0] Prerequisite: One of CHEM 345, CHEM 335. Students satisfying the prerequisite requirement using CHEM 335 must have fourth-year standing in a Chemistry Combined Major specialization.	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
CHEM_V 448-A_001	CHEM_V	448	A	A_001	Directed Studies in Chemistry	W1	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-A_100	CHEM_V	448	A	A_100	Directed Studies in Chemistry	W1	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-A_101	CHEM_V	448	A	A_101	Directed Studies in Chemistry	W1	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-B_002	CHEM_V	448	B	B_002	Directed Studies in Chemistry	W2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-B_200	CHEM_V	448	B	B_200	Directed Studies in Chemistry	W2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-B_202	CHEM_V	448	B	B_202	Directed Studies in Chemistry	W2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-C_001	CHEM_V	448	C	C_001	Directed Studies in Chemistry	W1-2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-C_003	CHEM_V	448	C	C_003	Directed Studies in Chemistry	W1-2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-C_100	CHEM_V	448	C	C_100	Directed Studies in Chemistry	W1-2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-C_101	CHEM_V	448	C	C_101	Directed Studies in Chemistry	W1-2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 448-C_303	CHEM_V	448	C	C_303	Directed Studies in Chemistry	W1-2	Students will undertake an investigation of a specific topic as agreed upon by the student and the faculty supervisor. Open to third- and fourth-year chemistry students.	In Person Learning	Arranged	Arranged
CHEM_V 449-002	CHEM_V	449		002	Seminar and Thesis	W1-2	Original research work under the direction of a faculty member. Weekly seminar. Required of all Honours students. Open to Majors students with a satisfactory standing and permission of the department head.	In Person Learning	Arranged	Arranged
CHEM_V 449-OR2	CHEM_V	449		OR2	Seminar and Thesis	W1-2	Original research work under the direction of a faculty member. Weekly seminar. Required of all Honours students. Open to Majors students with a satisfactory standing and permission of the department head.	In Person Learning	Arranged	Arranged
CHEM_V 449-202	CHEM_V	449		202	Seminar and Thesis	W2	Original research work under the direction of a faculty member. Weekly seminar. Required of all Honours students. Open to Majors students with a satisfactory standing and permission of the department head.	In Person Learning	Arranged	Arranged

CHEM_V 449-2R2	CHEM_V	449		2R2	Seminar and Thesis	W2	Original research work under the direction of a faculty member. Weekly seminar. Required of all Honours students. Open to Majors students with a satisfactory standing and permission of the department head.	In Person Learning	Arranged	Arranged
CHEM_V 460-166	CHEM_V	460		166	Organic Synthesis: A Mechanistic Approach	W1	Presentation, mechanistic discussion and analysis of modern synthetic methods using principles of physical organic chemistry. Credit will be granted for only one of CHEM 460 or CHEM 560. [3-0-0] Prerequisite: CHEM 330.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 461-233	CHEM_V	461		233	Synthetic Chemical Biology	W2	Synthetic, mechanistic, and biochemical approaches to chemical biology, including the design of drugs, probes, and catalysts. Credit will be granted for only one of CHEM 461 or CHEM 561. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CHEM 313, CHEM 330.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHEM_V 473-188	CHEM_V	473		188	Structure Determination and Reaction Analysis	W1	Application of mass spectrometry and modern spectroscopic techniques, including multidimensional NMR spectroscopy, to reaction analysis and detailed characterization of complex organic and organometallic molecular structures. [3-0-0] Prerequisite: CHEM 245 and one of CHEM 313, CHEM 318, CHEM 330.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
CHEM_V 498-610	CHEM_V	498		610	Co-operative Work Placement III	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the summer following fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CHEM399]	In Person Learning	Arranged	Arranged
CHEM_V 498-620	CHEM_V	498		620	Co-operative Work Placement III	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the summer following fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CHEM399]	In Person Learning	Arranged	Arranged
CHEM_V 499-610	CHEM_V	499		610	Co-operative Work Placement IV	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the fall term of the fifth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. Prerequisite: [CHEM498]	In Person Learning	Arranged	Arranged
CHEM_V 499-620	CHEM_V	499		620	Co-operative Work Placement IV	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Taken during the fall term of the fifth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. Prerequisite: [CHEM498]	In Person Learning	Arranged	Arranged
CHEM_V 501-111	CHEM_V	501		111	Applications of Quantum Mechanics in Chemistry	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
CHEM_V 502-211	CHEM_V	502		211	Advanced Physical Chemistry of the Solid State	W2	Credit will be granted for only one of CHEM 502 or CHEM 410. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CHEM_V 503-233	CHEM_V	503		233	Equilibrium Statistical Mechanics in Chemistry	W2	Introductory principles of Statistical Mechanics with illustrations of chemical importance. Applications to molecular gases, liquids, solids, independent particle statistics, electric and magnetic moments, radiation, chemical equilibrium and reaction rates. Credit will be granted for only one of CHEM 407/CHEM 503 or PHYS 455. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHEM_V 506-101	CHEM_V	506		101	Polymer Chemistry	W1	Credit will be granted for only one of CHEM 506 or CHEM 406. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CHEM_V 509-199	CHEM_V	509		199	Astrochemistry	W2	Credit will be granted for only one of CHEM 509 or CHEM 409. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 514-209	CHEM_V	514		209	Crystal Structures	W2	Crystal structures and structural analysis by the methods of X-ray diffraction and neutron diffraction. Credit will be granted for only one of CHEM 402 or CHEM 514. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 516-A_110	CHEM_V	516	A	A_110	Topics in Biophysical Chemistry	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 517-133	CHEM_V	517		133	Electrochemistry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CHEM_V 519-A_299	CHEM_V	519	A	A_299	Topics in Molecular Spectroscopy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 524-209	CHEM_V	524		209	Advanced Applications in Organometallic Chemistry	W2	Credit will be granted for only one of CHEM 418 or CHEM 524. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CHEM_V 529-199	CHEM_V	529		199	Structural Methods in Inorganic Chemistry	W1	NMR, ESR, mass spectrometry, photoelectron spectroscopy (Auger, UV, X-Ray), Mossbauer spectroscopy, electrochemistry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHEM_V 533-166	CHEM_V	533		166	Bioanalytical Chemistry	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 534-266	CHEM_V	534		266	Principles of Chemical Separation	W2	Credit will be granted for only one of CHEM 534 or CHEM 434. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHEM_V 535-A_212	CHEM_V	535	A	A_212	Topics in Analytical Chemistry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.

CHEM_V 548-001	CHEM_V	548	001	Research Conference	W1-2	Attendance is compulsory for all graduate students in each year of registration for the M.Sc. or Ph.D. in chemistry. No credit value.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.	
CHEM_V 549-001	CHEM_V	549	001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.	
CHEM_V 549-101	CHEM_V	549	101	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CHEM_V 549-201	CHEM_V	549	201	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CHEM_V 560-166	CHEM_V	560	166	Organic Chemistry: Building Molecules and Understanding Reactivity	W1	Credit will be granted for only one of CHEM 460 or CHEM 560. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
CHEM_V 561-199	CHEM_V	561	199	Advanced Chemical Biology	W1	Credit will be granted for only one of CHEM 461 and CHEM 561. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
CHEM_V 561-233	CHEM_V	561	233	Advanced Chemical Biology	W2	Credit will be granted for only one of CHEM 461 and CHEM 561. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
CHEM_V 563-212	CHEM_V	563	212	Advanced Physical Organic Chemistry	W2	Discussion of acidity functions, photochemistry and reactive intermediates in organic chemistry. Applications of molecular orbital theory to organic systems. Credit will be granted for only one of CHEM 563 or CHEM 416. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.	
CHEM_V 566-201	CHEM_V	566	201	Advanced Organic Synthesis	W2	Discussion of modern synthetic methods and applications to the synthesis of complex organic molecules. Credit will be granted for only one of CHEM 566 or CHEM 411. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
CHEM_V 569-199	CHEM_V	569	199	Advanced Bioorganic Chemistry	W1	Credit will be granted for only one of CHEM 569, CHEM 413, or BIOC 403. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
CHEM_V 573-299	CHEM_V	573	299	Application of Spectroscopy to Organic Structural Determinations	W2	A problem solving course to illustrate the application of NMR, mass spectrometry, ORD, CD, etc. to elucidation of structures of organic and organometallic compounds. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
CHEM_V 588-A_101	CHEM_V	588	A	A_101	Topics in Chemistry	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CHEM_V 588-B_201	CHEM_V	588	B	B_201	Topics in Chemistry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CHEM_V 649-001	CHEM_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Tue	12:30 p.m. - 2:00 p.m.	
CHEM_V 649-101	CHEM_V	649	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
CHEM_V 649-201	CHEM_V	649	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
CHIL_V 500-001	CHIL_V	500	001	Research in Children's and Young Adult Literature	W1	Multidisciplinary approaches to principles, practice, and current trends in academic research in children's literature. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
CHIL_V 599-001	CHIL_V	599	001	Thesis for Master of Arts in Children's Literature	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CHIL_V 599-002	CHIL_V	599	002	Thesis for Master of Arts in Children's Literature	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CHIL_V 599-003	CHIL_V	599	003	Thesis for Master of Arts in Children's Literature	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CHIL_V 599-004	CHIL_V	599	004	Thesis for Master of Arts in Children's Literature	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CHIN_V 131-011	CHIN_V	131	011	Basic Chinese I: Part 1 (Non-Heritage)	W1	Skills in listening, speaking, reading, and writing in Mandarin Chinese, an active vocabulary of about 250 Chinese words, and basic grammar. Credit will be granted for only one of CHIN 131 or CHIN 101 or CHIN 134. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
CHIN_V 131-012	CHIN_V	131	012	Basic Chinese I: Part 1 (Non-Heritage)	W1	Skills in listening, speaking, reading, and writing in Mandarin Chinese, an active vocabulary of about 250 Chinese words, and basic grammar. Credit will be granted for only one of CHIN 131 or CHIN 101 or CHIN 134. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	









CHIN_V 343-D21	CHIN_V	343	D21	Intermediate Chinese I: Part 2 (Heritage)	W2	Continuation of CHIN 341. Credit will be granted for only one of CHIN 343 or CHIN 213 or CHIN 344. Recommended pre-requisites: one of CHIN 211, CHIN 341. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	1:00 p.m. - 2:00 p.m.
CHIN_V 343-D22	CHIN_V	343	D22	Intermediate Chinese I: Part 2 (Heritage)	W2	Continuation of CHIN 341. Credit will be granted for only one of CHIN 343 or CHIN 213 or CHIN 344. Recommended pre-requisites: one of CHIN 211, CHIN 341. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	2:00 p.m. - 3:00 p.m.
CHIN_V 343-D23	CHIN_V	343	D23	Intermediate Chinese I: Part 2 (Heritage)	W2	Continuation of CHIN 341. Credit will be granted for only one of CHIN 343 or CHIN 213 or CHIN 344. Recommended pre-requisites: one of CHIN 211, CHIN 341. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 4:00 p.m.
CHIN_V 343-D99	CHIN_V	343	D99	Intermediate Chinese I: Part 2 (Heritage)	W2	Continuation of CHIN 341. Credit will be granted for only one of CHIN 343 or CHIN 213 or CHIN 344. Recommended pre-requisites: one of CHIN 211, CHIN 341. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CHIN_V 345-011	CHIN_V	345	011	Intermediate Chinese II: Part I (Heritage)	W1	Integrated skills in modern Chinese. Focus on reading, writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 345 or CHIN 215 or CHIN 348. Recommended pre-requisites: one of CHIN 213, CHIN 214, CHIN 343, CHIN 344. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHIN_V 345-D11	CHIN_V	345	D11	Intermediate Chinese II: Part I (Heritage)	W1	Integrated skills in modern Chinese. Focus on reading, writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 345 or CHIN 215 or CHIN 348. Recommended pre-requisites: one of CHIN 213, CHIN 214, CHIN 343, CHIN 344. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	2:00 p.m. - 3:00 p.m.
CHIN_V 345-D12	CHIN_V	345	D12	Intermediate Chinese II: Part I (Heritage)	W1	Integrated skills in modern Chinese. Focus on reading, writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 345 or CHIN 215 or CHIN 348. Recommended pre-requisites: one of CHIN 213, CHIN 214, CHIN 343, CHIN 344. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 4:00 p.m.
CHIN_V 345-D98	CHIN_V	345	D98	Intermediate Chinese II: Part I (Heritage)	W1	Integrated skills in modern Chinese. Focus on reading, writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 345 or CHIN 215 or CHIN 348. Recommended pre-requisites: one of CHIN 213, CHIN 214, CHIN 343, CHIN 344. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CHIN_V 347-021	CHIN_V	347	021	Intermediate Chinese II: Part 2 (Heritage)	W2	Continuation of CHIN 345. Credit will be granted for only one of CHIN 347 or CHIN 217 or CHIN 348. Recommended pre-requisites: one of CHIN 215, CHIN 345. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHIN_V 347-D21	CHIN_V	347	D21	Intermediate Chinese II: Part 2 (Heritage)	W2	Continuation of CHIN 345. Credit will be granted for only one of CHIN 347 or CHIN 217 or CHIN 348. Recommended pre-requisites: one of CHIN 215, CHIN 345. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	2:00 p.m. - 3:00 p.m.
CHIN_V 347-D22	CHIN_V	347	D22	Intermediate Chinese II: Part 2 (Heritage)	W2	Continuation of CHIN 345. Credit will be granted for only one of CHIN 347 or CHIN 217 or CHIN 348. Recommended pre-requisites: one of CHIN 215, CHIN 345. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 4:00 p.m.
CHIN_V 347-D99	CHIN_V	347	D99	Intermediate Chinese II: Part 2 (Heritage)	W2	Continuation of CHIN 345. Credit will be granted for only one of CHIN 347 or CHIN 217 or CHIN 348. Recommended pre-requisites: one of CHIN 215, CHIN 345. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CHIN_V 401-011	CHIN_V	401	011	Advanced Chinese Reading and Writing I (Non-Heritage)	W1	Reading and writing skills addressing social, cultural, and economic issues. Can be taken concurrently with CHIN 405. Credit will be granted for only one of CHIN 401 or CHIN 301 or CHIN 404. Recommended pre-requisites: one of CHIN 207, CHIN 208, CHIN 337, CHIN 338. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHIN_V 403-021	CHIN_V	403	021	Advanced Chinese Reading and Writing II (Non-Heritage)	W2	Continuation of CHIN 401. Can be taken concurrently with CHIN 407. Credit will be granted for only one of CHIN 403 or CHIN 303 or CHIN 404. Recommended pre-requisites: one of CHIN 301, CHIN 401. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CHIN_V 405-011	CHIN_V	405	011	Advanced Chinese Speaking and Writing I (Non-Heritage)	W1	More formal styles of oral and written communication. Can be taken concurrently with CHIN 401. Credit will be granted for only one of CHIN 405 or CHIN 305 or CHIN 408. Recommended pre-requisites: one of CHIN 207, CHIN 208, CHIN 337, CHIN 338. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHIN_V 407-021	CHIN_V	407	021	Advanced Chinese Speaking and Writing II (Non-Heritage)	W2	Continuation of CHIN 405. Can be taken concurrently with CHIN 403. Credit will be granted for only one of CHIN 407 or CHIN 307 or CHIN 408. Recommended pre-requisites: one of CHIN 305, CHIN 405. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHIN_V 415-011	CHIN_V	415	011	Media Chinese I (Heritage)	W1	Reading and understanding Chinese as used in newspapers, radio/TV, and the internet news. Credit will be granted for only one of CHIN 415 or CHIN 309. Recommended pre-requisites: one of CHIN 347, CHIN 348.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CHIN_V 435-011	CHIN_V	435	011	Business Chinese I (Heritage)	W1	Reading, writing, and presentation skills in business documentation, focusing on technical Chinese as used in the workplace. Emphasis on specialized vocabulary and development of communicative competence as relevant to advertising, the stock market and E-commerce. Credit will be granted for only one of CHIN 435 or CHIN 321. Recommended pre-requisites: one of CHIN 217, CHIN 218, CHIN 347, CHIN 348. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CHIN_V 437-021	CHIN_V	437	021	Business Chinese II (Heritage)	W2	Reading, writing, and presentation skills in business documentation, focusing on technical Chinese as used in the workplace. Emphasis on specialized vocabulary and development of communicative competence as relevant to legal and financial documents such as contracts, investments, and insurance. Credit will be granted for only one of CHIN 437 or CHIN 323. Recommended pre-requisites: one of CHIN 217, CHIN 218, CHIN 347, CHIN 348. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CHIN_V 441-011	CHIN_V	441	011	Advanced Chinese Reading and Writing I (Heritage)	W1	Transition from language to literature. Can be taken concurrently with CHIN 435 and CHIN 445. Credit will be granted for only one of CHIN 441 or CHIN 311 or CHIN 444. Recommended pre-requisites: one of CHIN 217, CHIN 218, CHIN 347, CHIN 348. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CHIN_V 443-021	CHIN_V	443	021	Advanced Chinese Reading and Writing II (Heritage)	W2	Continuation of CHIN 441. Can be taken concurrently with CHIN 437 and/or CHIN 447. Credit will be granted for only one of CHIN 443 or CHIN 313 or CHIN 444. Recommended pre-requisites: one of CHIN 311, CHIN 441. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.

CHIN_V 451-011	CHIN_V	451	011	Introductory Modern Chinese Literature I	W1	A reading-intensive introduction to modern Chinese literature from 1900 to 1949, with a focus on fiction. Credit will be granted for only one of CHIN 451 or CHIN 411. Recommended pre-requisites: one of CHIN 303, CHIN 304, CHIN 403, CHIN 404, CHIN 435, CHIN 441, CHIN 443 and one of CHIN 307, CHIN 308, CHIN 407, CHIN 408, CHIN 437, CHIN 445, CHIN 447. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CHIN_V 453-021	CHIN_V	453	021	Introductory Modern Chinese Literature II	W2	A reading-intensive introduction to modern Chinese literature from 1949 to the present, with a focus on fiction. Credit will be granted for only one of CHIN 453 or CHIN 413. Recommended pre-requisites: one of CHIN 411, CHIN 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CHIN_V 461-011	CHIN_V	461	011	Early Classical Chinese Poetry (to Han)	W1	Readings in classical poetry from the pre-Qin to the end of the Han Dynasties, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 461 or CHIN 464. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CHIN_V 463-021	CHIN_V	463	021	Early Classical Chinese Poetry (Han to Tang)	W2	Readings in classical poetry from the Six Dynasties to early Tang, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 463 or CHIN 464. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CHIN_V 465-21	CHIN_V	465	21	Fantasy in Chinese Literature	W2	Themes in Chinese literature from pre-Qin to the present, with a focus on narratives about the supernatural, the marvelous, and the fantastic. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	6:30 p.m. - 8:00 p.m.
CHIN_V 466-021	CHIN_V	466	021	Chinese Martial Arts Fiction	W2	Chinese martial arts fiction as a form of cultural expression first created in classical Chinese fiction and then evolved into contemporary popular literature. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHIN_V 471-011	CHIN_V	471	011	Later Classical Chinese Poetry (Tang)	W1	Readings in classical poetry from the time of Du Fu (712-770) to the end of the Tang Dynasty, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 471 or 474. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHIN_V 471-012	CHIN_V	471	012	Later Classical Chinese Poetry (Tang)	W1	Readings in classical poetry from the time of Du Fu (712-770) to the end of the Tang Dynasty, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 471 or 474. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CHIN_V 471-013	CHIN_V	471	013	Later Classical Chinese Poetry (Tang)	W1	Readings in classical poetry from the time of Du Fu (712-770) to the end of the Tang Dynasty, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 471 or 474. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	5:00 p.m. - 6:00 p.m.
CHIN_V 473-021	CHIN_V	473	021	Later Classical Chinese Poetry (after Tang)	W2	Readings in classical poetry from the Song to the Qing dynasties, at an advanced level. Not to be taken concurrently with any CHIN courses lower than 400-level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 473 or 474. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CHIN_V 473-022	CHIN_V	473	022	Later Classical Chinese Poetry (after Tang)	W2	Readings in classical poetry from the Song to the Qing dynasties, at an advanced level. Not to be taken concurrently with any CHIN courses lower than 400-level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 473 or 474. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CHIN_V 473-023	CHIN_V	473	023	Later Classical Chinese Poetry (after Tang)	W2	Readings in classical poetry from the Song to the Qing dynasties, at an advanced level. Not to be taken concurrently with any CHIN courses lower than 400-level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 473 or 474. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	5:00 p.m. - 6:00 p.m.
CHIN_V 481-011	CHIN_V	481	011	Modern Chinese Literature I (Heritage)	W1	Selected readings from the May Fourth Era to present. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 481 or CHIN 484. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CHIN_V 481-012	CHIN_V	481	012	Modern Chinese Literature I (Heritage)	W1	Selected readings from the May Fourth Era to present. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 481 or CHIN 484. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon Wed	6:30 p.m. - 8:00 p.m.
CHIN_V 483-021	CHIN_V	483	021	Modern Chinese Literature II (Heritage)	W2	Historical continuation of CHIN 481. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 483 or CHIN 484. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CHIN_V 483-022	CHIN_V	483	022	Modern Chinese Literature II (Heritage)	W2	Historical continuation of CHIN 481. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 483 or CHIN 484. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon Wed	6:30 p.m. - 8:00 p.m.

CHIN_V 485-011	CHIN_V	485	011	Contemporary Chinese Fiction in Film	W1	Contemporary Chinese films from the 21st century adapted from literary works. Recommended pre-requisites: One of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHIN_V 485-012	CHIN_V	485	012	Contemporary Chinese Fiction in Film	W1	Contemporary Chinese films from the 21st century adapted from literary works. Recommended pre-requisites: One of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.	Online Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CHIN_V 485-021	CHIN_V	485	021	Contemporary Chinese Fiction in Film	W2	Contemporary Chinese films from the 21st century adapted from literary works. Recommended pre-requisites: One of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CHIN_V 485-022	CHIN_V	485	022	Contemporary Chinese Fiction in Film	W2	Contemporary Chinese films from the 21st century adapted from literary works. Recommended pre-requisites: One of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.	Online Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CHIN_V 486-011	CHIN_V	486	011	Staging Drama in Modern China	W1	Development, performance, intercultural interactions, and multi-media adaptations of modern Chinese drama. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CHIN_V 489-011	CHIN_V	489	011	Reading Modern Sinophone Literature	W1	Sinophone literature produced beyond mainland China after 1949 as a dynamic part of understanding cultural Chineseness in its local, communal and global context. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.	Online Learning	Arranged	Arranged
CHIN_V 491-011	CHIN_V	491	011	Classical Chinese I (Heritage)	W1	The development of early Chinese from the classical period through the Six Dynasties (5th century BCE to 6th century CE). Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 491 or CHIN 431 or CHIN 494. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue	2:00 p.m. - 5:00 p.m.
CHIN_V 493-021	CHIN_V	493	021	Classical Chinese II (Heritage)	W2	Focus in on the Tang and Song dynasties (617 - 1279). Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/ 443/ 444/ 445/ 447/ 448/ 435/ 437. Credit will be granted for only one of CHIN 493 or CHIN 433 or CHIN 494. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CINE_V 100-001	CINE_V	100	001	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Wed	2:00 p.m. - 5:30 p.m.
CINE_V 100-003	CINE_V	100	003	Introduction to Cinema Studies	W2	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Wed	2:00 p.m. - 5:30 p.m.
CINE_V 100-004	CINE_V	100	004	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
CINE_V 100-D11	CINE_V	100	D11	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CINE_V 100-D12	CINE_V	100	D12	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CINE_V 100-D13	CINE_V	100	D13	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CINE_V 100-D31	CINE_V	100	D31	Introduction to Cinema Studies	W2	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CINE_V 100-D32	CINE_V	100	D32	Introduction to Cinema Studies	W2	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CINE_V 100-D33	CINE_V	100	D33	Introduction to Cinema Studies	W2	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CINE_V 100-D41	CINE_V	100	D41	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
CINE_V 100-D42	CINE_V	100	D42	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
CINE_V 100-D43	CINE_V	100	D43	Introduction to Cinema Studies	W1	Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
CINE_V 200-002	CINE_V	200	002	Introduction to Canadian Cinema	W1	History and aesthetics of Canadian cinema. Credit will be granted for only one of FIST 200 or CINE 200.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
CINE_V 210-001	CINE_V	210	001	Early Cinema	W2	Aesthetics, economics, history, and technological characteristics of international early film. Credit will be granted for only one of FIST 210 or CINE 210.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.

CINE_V 220-002	CINE_V	220	002	Hollywood Cinema 1930-1960	W2	Analysis of the aesthetics, economics, history and technological characteristics of the Classical Hollywood period. Credit will be granted for only one of FIST 220 or CINE 220.	In Person Learning	Wed	10:00 a.m. - 1:00 p.m.
CINE_V 220-D21	CINE_V	220	D21	Hollywood Cinema 1930-1960	W2	Analysis of the aesthetics, economics, history and technological characteristics of the Classical Hollywood period. Credit will be granted for only one of FIST 220 or CINE 220.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
CINE_V 220-D22	CINE_V	220	D22	Hollywood Cinema 1930-1960	W2	Analysis of the aesthetics, economics, history and technological characteristics of the Classical Hollywood period. Credit will be granted for only one of FIST 220 or CINE 220.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
CINE_V 220-D23	CINE_V	220	D23	Hollywood Cinema 1930-1960	W2	Analysis of the aesthetics, economics, history and technological characteristics of the Classical Hollywood period. Credit will be granted for only one of FIST 220 or CINE 220.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
CINE_V 240-001	CINE_V	240	001	Media Industries	W1	Overview of today's film and media industries, and of the concepts governing their practices. Credit will be granted for only one of FIST 240 or CINE 240.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CINE_V 240-002	CINE_V	240	002	Media Industries	W2	Overview of today's film and media industries, and of the concepts governing their practices. Credit will be granted for only one of FIST 240 or CINE 240.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
CINE_V 300-001	CINE_V	300	001	Cult Cinema	W1	Overview of world cult cinema. Credit will be granted for only one of FIST 300 or CINE 300.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
CINE_V 331-002	CINE_V	331	002	Studies in Film Theory	W1	A seminar introducing the many theoretical approaches to film: formalist, historical, Marxist, psychoanalytic, semiotic, and structuralist. Credit will be granted for only one of FIST 331 or CINE 331.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CINE_V 332-001	CINE_V	332	001	Studies in Genre or Period	W2	A seminar examining one or more genres or periods, such as the Western, Film Noir, Science Fiction, Films of the 1980's. Also includes study of national cinemas. Credit will be granted for only one of FIST 332 or CINE 332.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
CINE_V 334-001	CINE_V	334	001	Seminar in Documentary	W1	An analysis of the representational strategies and ethics of the form. Credit will be granted for only one of FIST 334 or CINE 334.	In Person Learning	Wed	6:00 p.m. - 8:00 p.m.
CINE_V 336-001	CINE_V	336	001	Seminar in European Cinema	W2	Topics may include a study of a European national cinema. Credit will be granted for only one of FIST 336 or CINE 336.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
CINE_V 338-001	CINE_V	338	001	Asian and Australasian Cinema	W2	Topics may include an analysis of a national cinema, such as that of China, India, or Australia. Credit will be granted for only one of FIST 338 or CINE 338.	In Person Learning	Mon	10:00 a.m. - 12:30 p.m.
CINE_V 340-001	CINE_V	340	001	Media Audiences	W1	Overview of approaches for studying audiences and receptions of film and contemporary media. Credit will be granted for only one of FIST 340 or CINE 340.	In Person Learning	Mon	3:00 p.m. - 4:30 p.m.
CINE_V 430-001	CINE_V	430	001	Studies in Auteurism	W2	A seminar examining the work of one or more directors, such as John Ford, Francois Truffaut, Denys Arcand, Margarethe Von Trotta, or of a screenwriter over many films. Credit will be granted for only one of FIST 430 or CINE 430.	In Person Learning	Arranged	Arranged
CINE_V 432-A_001	CINE_V	432	A	A_001	W2	Seminar in Motion Picture Forms Animation, experimental, and/or multimedia.	In Person Learning	Tue	10:00 a.m. - 12:30 p.m.
CINE_V 434-B_001	CINE_V	434	B	B_001	W2	Studies in Film A seminar devoted to a topic of current interest in film. Topic will change from year to year. May be repeated for credit when topics differ. Credit will be granted for only one of FIST 434 or CINE 434.	In Person Learning	Wed	11:30 a.m. - 1:00 p.m.
CINE_V 436-001	CINE_V	436	001	Seminar in American Cinema Since 1960	W2	Topics may include an analysis of a specific period. Credit will be granted for only one of FIST 436 or CINE 436.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
CINE_V 438-002	CINE_V	438	002	Seminar in Canadian Cinema	W2	Topics may include an analysis of the Canadian Governmental agencies supporting Film Production. Credit will be granted for only one of FIST 438 or CINE 438.	In Person Learning	Arranged	Arranged
CINE_V 445-001	CINE_V	445	001	Majors and Honours Seminar	W1	Credit will be granted for only one of FIST 445 or CINE 445.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
CINE_V 449-001	CINE_V	449	001	Honours Essay	W1-2	A course allowing honours students to work with a faculty member on a major research paper. Credit will be granted for only one of FIST449 or CINE 449.	In Person Learning	Arranged	Arranged
CIVL_V 201-101	CIVL_V	201	101	Introduction to Civil Engineering	W1	The design process; graphical, visualization and computational tools; civil engineering disciplines; decision-making; teamwork; conceptual design project reflecting community, economic, environmental, sustainability and technical considerations. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 203.	Hybrid Learning	Thu	12:30 p.m. - 2:00 p.m.
CIVL_V 203-101	CIVL_V	203	101	Technical Communication in Civil Engineering	W1	Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 201. Equivalency: APSC 201	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.

CIVL_V 203-102	CIVL_V	203	102	Technical Communication in Civil Engineering	W1	Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 201. Equivalency: APSC 201	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CIVL_V 203-103	CIVL_V	203	103	Technical Communication in Civil Engineering	W1	Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 201. Equivalency: APSC 201	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CIVL_V 203-104	CIVL_V	203	104	Technical Communication in Civil Engineering	W1	Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 201. Equivalency: APSC 201	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CIVL_V 204-101	CIVL_V	204	101	Fundamentals of Environmental Engineering	W1	Environmental engineering issues and projects; application of scientific and engineering principles to addressing these; soil, water and air pollution, and remediation. [3-0-0] Prerequisite: CHEM 154.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CIVL_V 204-201	CIVL_V	204	201	Fundamentals of Environmental Engineering	W2	Environmental engineering issues and projects; application of scientific and engineering principles to addressing these; soil, water and air pollution, and remediation. [3-0-0] Prerequisite: CHEM 154.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
CIVL_V 210-201	CIVL_V	210	201	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CIVL_V 210-L2A	CIVL_V	210	L2A	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Mon	3:00 p.m. - 5:30 p.m.
CIVL_V 210-L2B	CIVL_V	210	L2B	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Mon	3:00 p.m. - 5:30 p.m.
CIVL_V 210-L2C	CIVL_V	210	L2C	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Tue	3:00 p.m. - 5:30 p.m.
CIVL_V 210-L2D	CIVL_V	210	L2D	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Tue	3:00 p.m. - 5:30 p.m.
CIVL_V 210-L2E	CIVL_V	210	L2E	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Wed	3:00 p.m. - 5:30 p.m.
CIVL_V 210-L2F	CIVL_V	210	L2F	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Wed	3:00 p.m. - 5:30 p.m.
CIVL_V 210-L2G	CIVL_V	210	L2G	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Fri	2:00 p.m. - 4:30 p.m.
CIVL_V 210-L2H	CIVL_V	210	L2H	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Thu	3:00 p.m. - 5:30 p.m.
CIVL_V 210-T2A	CIVL_V	210	T2A	Soil Mechanics I	W2	Soil classification, principle of effective stress, analysis of seepage, filter criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
CIVL_V 215-101	CIVL_V	215	101	Fluid Mechanics I	W1	Fluid properties, hydrostatics, kinematics, and fluid dynamics: energy and momentum methods with applications. Dimensional analysis, modelling, introduction to flow in pipes and forces on immersed objects. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, MATH 101.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CIVL_V 215-T1A	CIVL_V	215	T1A	Fluid Mechanics I	W1	Fluid properties, hydrostatics, kinematics, and fluid dynamics: energy and momentum methods with applications. Dimensional analysis, modelling, introduction to flow in pipes and forces on immersed objects. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, MATH 101.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CIVL_V 215-T1B	CIVL_V	215	T1B	Fluid Mechanics I	W1	Fluid properties, hydrostatics, kinematics, and fluid dynamics: energy and momentum methods with applications. Dimensional analysis, modelling, introduction to flow in pipes and forces on immersed objects. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, MATH 101.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CIVL_V 215-T1C	CIVL_V	215	T1C	Fluid Mechanics I	W1	Fluid properties, hydrostatics, kinematics, and fluid dynamics: energy and momentum methods with applications. Dimensional analysis, modelling, introduction to flow in pipes and forces on immersed objects. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, MATH 101.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CIVL_V 230-101	CIVL_V	230	101	Solid Mechanics	W1	Stress and strain, Hooke's law, axially loaded members, torsion, shear forces and bending moments in beams, bending and shear stresses in beams, composite members, introduction to elastic and statically indeterminate problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, MATH 101.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CIVL_V 230-T1A	CIVL_V	230	T1A	Solid Mechanics	W1	Stress and strain, Hooke's law, axially loaded members, torsion, shear forces and bending moments in beams, bending and shear stresses in beams, composite members, introduction to elastic and statically indeterminate problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, MATH 101.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
CIVL_V 231-201	CIVL_V	231	201	Structural Mechanics	W2	Deflection of beams and structural systems; analysis of determinate structures; combined axial load and bending; beam-columns; buckling (stability); biaxial stresses and strains; construction and testing of model structures. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of MATH 152, CIVL 203, CIVL 230.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

CIVL_V 231-T2A	CIVL_V	231	T2A	Structural Mechanics	W2	Deflection of beams and structural systems; analysis of determinate structures; combined axial load and bending; beam- columns; buckling (stability); biaxial stresses and strains; construction and testing of model structures. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of MATH 152, CIVL 203, CIVL 230.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
CIVL_V 250-101	CIVL_V	250	101	Engineering and Sustainable Development	W1	Implications of a finite biosphere and the complexities inherent in environmental decision-making. [3-0-0]	Online Learning	Arranged	Arranged
CIVL_V 250-201	CIVL_V	250	201	Engineering and Sustainable Development	W2	Implications of a finite biosphere and the complexities inherent in environmental decision-making. [3-0-0]	Online Learning	Arranged	Arranged
CIVL_V 300-201	CIVL_V	300	201	Construction Engineering and Management	W2	Project delivery systems: traditional; construction management; turnkey; project management. Network planning methods. Activity planning, including construction methods selection. Estimating, bidding and bonding. Project control tools and procedures. Human resources, including equity considerations; occupational health and safety and quality control. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Wed Fri	12:30 p.m. - 2:00 p.m.
CIVL_V 301-101	CIVL_V	301	101	Modelling and Decision-Making in Civil Engineering	W1	Introduction to systems engineering; applications of decision-making, modelling, and programming, including probabilistic analyses and optimization, to civil engineering projects; review of numerical methods This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 152, CIVL 201, STAT 251.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CIVL_V 301-T1A	CIVL_V	301	T1A	Modelling and Decision-Making in Civil Engineering	W1	Introduction to systems engineering; applications of decision-making, modelling, and programming, including probabilistic analyses and optimization, to civil engineering projects; review of numerical methods This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 152, CIVL 201, STAT 251.	In Person Learning	Thu	2:30 p.m. - 3:30 p.m.
CIVL_V 302-201	CIVL_V	302	201	Civil Engineering Impacts	W2	The social and biophysical context of infrastructure and the impact of civil engineering on people, the economy, and the environment. Specific topics vary from year to year. [3-0-0] Prerequisite: CIVL 201.	In Person Learning	Arranged	Arranged
CIVL_V 302-202	CIVL_V	302	202	Civil Engineering Impacts	W2	The social and biophysical context of infrastructure and the impact of civil engineering on people, the economy, and the environment. Specific topics vary from year to year. [3-0-0] Prerequisite: CIVL 201.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
CIVL_V 302-203	CIVL_V	302	203	Civil Engineering Impacts	W2	The social and biophysical context of infrastructure and the impact of civil engineering on people, the economy, and the environment. Specific topics vary from year to year. [3-0-0] Prerequisite: CIVL 201.	In Person Learning	Arranged	Arranged
CIVL_V 302-204	CIVL_V	302	204	Civil Engineering Impacts	W2	The social and biophysical context of infrastructure and the impact of civil engineering on people, the economy, and the environment. Specific topics vary from year to year. [3-0-0] Prerequisite: CIVL 201.	In Person Learning	Arranged	Arranged
CIVL_V 303-101	CIVL_V	303	101	Computational Tools in Civil Engineering	W1	Computational and numerical solutions to civil engineering problems; application to a civil engineering design project that reflects community, economic, environmental and technical considerations. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of CIVL 201, CIVL 210, CIVL 215, CIVL 231, MATH 256.	In Person Learning	Mon Wed	8:00 a.m. - 9:00 a.m.
CIVL_V 303-T1A	CIVL_V	303	T1A	Computational Tools in Civil Engineering	W1	Computational and numerical solutions to civil engineering problems; application to a civil engineering design project that reflects community, economic, environmental and technical considerations. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of CIVL 201, CIVL 210, CIVL 215, CIVL 231, MATH 256.	In Person Learning	Fri	8:00 a.m. - 9:00 a.m.
CIVL_V 305-201	CIVL_V	305	201	Introduction to Environmental Engineering Applications	W2	Environmental legislation; risk assessment; urban water; mass balance; water and wastewater treatment; environmental impact assessment. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 204. Or third-year standing in IGEN.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
CIVL_V 311-101	CIVL_V	311	101	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CIVL_V 311-L1A	CIVL_V	311	L1A	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CIVL_V 311-L1B	CIVL_V	311	L1B	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 4:00 p.m.
CIVL_V 311-L1C	CIVL_V	311	L1C	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Tue (Alternate weeks)	3:00 p.m. - 5:00 p.m.
CIVL_V 311-L1D	CIVL_V	311	L1D	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Tue (Alternate weeks)	3:00 p.m. - 5:00 p.m.
CIVL_V 311-L1E	CIVL_V	311	L1E	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Wed (Alternate weeks)	3:00 p.m. - 5:00 p.m.
CIVL_V 311-L1F	CIVL_V	311	L1F	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Wed (Alternate weeks)	3:00 p.m. - 5:00 p.m.
CIVL_V 311-L1G	CIVL_V	311	L1G	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Fri (Alternate weeks)	3:00 p.m. - 5:00 p.m.
CIVL_V 311-L1H	CIVL_V	311	L1H	Soil Mechanics II	W1	One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL210]	In Person Learning	Fri (Alternate weeks)	3:00 p.m. - 5:00 p.m.





CIVL_V 320-101	CIVL_V	320	101	Civil Engineering Materials	W1	The structure and properties of common Civil Engineering materials: aggregates, Portland cement, concrete, wood, steel and other construction materials. The emphasis is on the relationship between the structure of materials and their mechanical and durability properties. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: APSC278,APSC279	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CIVL_V 331-201	CIVL_V	331	201	Steel and Timber Design	W2	Introduction to limit states design of steel and timber structures: design objectives, design loads and load combinations, structural safety, material properties, design of tension and compression members, beams, columns, and connections. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CIVL 231.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
CIVL_V 331-T2A	CIVL_V	331	T2A	Steel and Timber Design	W2	Introduction to limit states design of steel and timber structures: design objectives, design loads and load combinations, structural safety, material properties, design of tension and compression members, beams, columns, and connections. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CIVL 231.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
CIVL_V 332-101	CIVL_V	332	101	Structural Analysis	W1	Introduction to indeterminate structural analysis; approximate analysis of structures; calculation of displacements using virtual work; flexibility (force) method; stiffness method for frames; moment distribution method; influence lines, introduction to structural dynamics. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CIVL 231, MATH 152.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
CIVL_V 332-T1A	CIVL_V	332	T1A	Structural Analysis	W1	Introduction to indeterminate structural analysis; approximate analysis of structures; calculation of displacements using virtual work; flexibility (force) method; stiffness method for frames; moment distribution method; influence lines, introduction to structural dynamics. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CIVL 231, MATH 152.	In Person Learning	Thu	12:30 p.m. - 2:30 p.m.
CIVL_V 340-201	CIVL_V	340	201	Transportation Engineering I	W2	The analysis and design of transportation facilities; vehicle motion and vehicle/pavement interaction; geometric design of roadways; traffic flow analysis and level of service; fundamentals of intersection design; traffic safety. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: STAT 251.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CIVL_V 402-101	CIVL_V	402	101	Professionalism and Law in Civil Engineering	W1	The Professional Governance Act; professional ethics, conflicts of interest, confidentiality and accountability; health and safety; sustainable development and environmental stewardship; equity considerations; design and construction contracts, specifications and tendering; labour and employment law; dispute resolution; evidence and expert witnesses; torts and legal liability. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CIVL_V 403-201	CIVL_V	403	201	Engineering Economic Analysis	W2	Time value of money; cash flow analysis; comparing options; depreciation, taxes, and inflation; financial accounting; company structures; public sector projects; decision-making. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CIVL_V 406-101	CIVL_V	406	101	Water Treatment and Waste Management	W1	Processes used in water and wastewater treatment. Conditions which necessitate treatment of water or wastewater, water and wastewater treatment processes and plant design. Municipal services required and associated with solid waste management. Credit will be granted for only one of CHBE 373 or CIVL 406. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 305. or third-year standing in ENVL program.	In Person Learning	Tue	3:00 p.m. - 4:30 p.m.
CIVL_V 408-201	CIVL_V	408	201	Geo-Environmental Engineering	W2	Environmental contamination, regulatory requirements, site investigation, migration of contaminants, containment systems, site remediation technologies, design considerations related to soil-contaminant interactions, hydrogeology, geochemistry and types of contaminants. Design and performance case histories. [3-0-0] Prerequisite: CIVL 316 and fourth-year standing.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CIVL_V 409-201	CIVL_V	409	201	Municipal Engineering	W2	Design of municipal infrastructure, including streets, water supply networks, and sewers, garbage collection and solid waste management. Focus is on solutions for providing an adequate water supply, collecting and disposing of stormwater and sewage, and managing excess stormwater flow. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of CIVL 315, CIVL 316.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CIVL_V 410-101	CIVL_V	410	101	Foundation Engineering I	W1	An introduction to the process of foundation engineering. Empirical and analytical approaches used in current professional practice. Topics include site investigation, preloading, liquefaction assessment, ground improvement, design of shallow and deep foundations, and retaining structures. The importance of geology and technical communication are emphasized. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL311	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CIVL_V 411-201	CIVL_V	411	201	Foundation Engineering II	W2	Aspects of Geotechnical Engineering. Design considerations illustrated by case histories pertinent to BC. Topics include: site investigation, terrain analyses, in situ testing, groundwater problems, deep foundations, tie back walls and bracing, tailings impoundments, Northern construction, ground ice, dikes and dams engineering. Many case histories presented in part by prominent consulting engineers in BC. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 410.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CIVL_V 413-201	CIVL_V	413	201	Design of Earth Dams and Containment Structures	W2	Purpose and types of dams; design criteria; construction sequence; compaction; seepage; filter design; factors influencing the design of earth dams; stability and deformation under static and earthquake loading; slope protection; field instrumentation. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CIVL311] Fourth-year standing.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
CIVL_V 415-201	CIVL_V	415	201	Water Resource Engineering	W2	An introduction to the planning and design of water resource systems, stream systems, and municipal and hydropower engineering. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of CIVL 315, CIVL 316, STAT 251.	In Person Learning	Arranged	Arranged
CIVL_V 416-101	CIVL_V	416	101	Environmental Hydraulics	W1	Application of hydraulic engineering principles to problems of environmental concern. Pollutant transport and dispersion. Mixing in rivers and lakes. Theory of jets and plumes. Design of outfall diffusers. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of CIVL 316, MATH 256.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CIVL_V 417-101	CIVL_V	417	101	Coastal Engineering	W1	Linear wave theory; wave shoaling, refraction and diffraction; random waves; wave generation; long waves, tides and currents; coastal structures; beaches and coasts; mixing processes; harbour and marinas; coastal modelling. Credit will only be given for one of CIVL 417 or CIVL 540. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 316 and one of EOSC 213, MATH 256.	In Person Learning	Arranged	Arranged
CIVL_V 417-201	CIVL_V	417	201	Coastal Engineering	W2	Linear wave theory; wave shoaling, refraction and diffraction; random waves; wave generation; long waves, tides and currents; coastal structures; beaches and coasts; mixing processes; harbour and marinas; coastal modelling. Credit will only be given for one of CIVL 417 or CIVL 540. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 316 and one of EOSC 213, MATH 256.	In Person Learning	Tue	3:00 p.m. - 4:30 p.m.

CIVL_V 418-201	CIVL_V	418	201	Engineering Hydrology	W2	Hydrologic processes - weather, precipitation, infiltration, evaporation, snowmelt and runoff generation. Emphasis on quantitative techniques including: hydrograph analysis, reservoir and channel routing, statistical methods and design floods, hydrologic modelling. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 316.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CIVL_V 425-201	CIVL_V	425	201	Case Studies of Construction Methods	W2	Identification and evaluation of solutions to construction site operation problems: the relationship between design and construction; factors affecting productivity and safety; measurement of on-site performance. Credit will be granted for only one of CIVL 425 or CIVL 521. [3-0-0] Prerequisite: Fourth-year standing.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
CIVL_V 426-101	CIVL_V	426	101	Virtual Design and Construction	W1	Building information modelling (BIM), 4D/5D modelling, design coordination, BIM execution and performance assessment, and integrated project delivery methods. Credit will be granted for only one of CIVL 426 or CIVL 526. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Thu	4:30 p.m. - 6:00 p.m.
CIVL_V 426-201	CIVL_V	426	201	Virtual Design and Construction	W2	Building information modelling (BIM), 4D/5D modelling, design coordination, BIM execution and performance assessment, and integrated project delivery methods. Credit will be granted for only one of CIVL 426 or CIVL 526. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CIVL_V 427-101	CIVL_V	427	101	Applied Machine Learning for Construction and Facility Management	W1	Introduction to classical machine learning algorithms, including linear regression, logistic regression, decision trees, and neural networks, and their applications to Civil Engineering practices, such as construction safety, building energy conservation, and traffic simulation. Other topics at the discretion of the instructor. [3-0-0] Prerequisite: CIVL 300.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CIVL_V 430-101	CIVL_V	430	101	Design of Concrete Structures	W1	Non-linear response of reinforced concrete members subjected to axial load, bending and shear; design of simple one-way members including beams, columns, slabs and footings. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: CIVL 231.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CIVL_V 430-L1A	CIVL_V	430	L1A	Design of Concrete Structures	W1	Non-linear response of reinforced concrete members subjected to axial load, bending and shear; design of simple one-way members including beams, columns, slabs and footings. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: CIVL 231.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CIVL_V 430-L1B	CIVL_V	430	L1B	Design of Concrete Structures	W1	Non-linear response of reinforced concrete members subjected to axial load, bending and shear; design of simple one-way members including beams, columns, slabs and footings. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: CIVL 231.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CIVL_V 432-101	CIVL_V	432	101	Advanced Structural Steel Design	W1	Design of steel structures to resist vertical and lateral loads. Floor and roof systems including conceptual layout, floor deck, beams, joists, trusses, and columns. Stability issues and limit states design. Connections and construction aspects. Seismic design. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CIVL331, CIVL332]	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CIVL_V 433-201	CIVL_V	433	201	Advanced Concrete Design	W2	Design of members subjected to shear and torsion, long columns, two-way slab systems; seismic design of low-rise concrete buildings. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CIVL430]	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CIVL_V 435-101	CIVL_V	435	101	Advanced Structural Analysis	W1	Shear flow, shear deformation, St. Venant torsion, warping torsion, P-delta and geometric stiffness, buckling of columns and frames, cylindrical shells, beams on elastic foundation, shear wall analysis, elasto-plastic analysis. Introduction to the finite element method. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 332.	In Person Learning	Wed	3:30 p.m. - 5:00 p.m.
CIVL_V 436-201	CIVL_V	436	201	Matrix Structural Analysis and Dynamics	W2	Further techniques in matrix structural analysis; non-rigid supports, temperature-shrinkage effects, computer implementation; matrix representation of structural dynamics; mode shapes, natural frequencies, continuous systems; lumped mass models, modal analysis, response spectra. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CIVL332]	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CIVL_V 439-201	CIVL_V	439	201	Design of Timber Structures	W2	Design of timber structural elements using limit states design principles; joints and fasteners, sawn lumber and engineered wood products, light frame systems and shear walls. Credit will be granted for only one of CIVL 439 or CIVL 516. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CIVL 331, WOOD 386.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
CIVL_V 440-101	CIVL_V	440	101	Transportation Engineering II	W1	Traffic operations and network analysis: macroscopic traffic models and shockwaves analysis; queueing theory and gaps; advanced signalized intersection analysis and design; freeway weaving and interchange analysis; data collection including field exercises. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CIVL340]	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
CIVL_V 441-201	CIVL_V	441	201	Transportation Planning and Analysis	W2	Transportation systems planning and analysis: data needs; surveys and analysis; sampling techniques; trip generation; trip distribution; modal choice; trip assignment; traffic impact studies; system evaluation. Credit will be granted for only one of CIVL 441, CIVL 583 or PLAN 535. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CIVL340] Fourth-year standing.	In Person Learning	Tue	3:30 p.m. - 6:30 p.m.
CIVL_V 445-101	CIVL_V	445	101	Civil Engineering Design Project I	W1	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering project. Focus on conceptual and preliminary design. This course is not eligible for Credit/D/Fail grading. [2*-0-4] Prerequisite: CIVL 203. and fourth-year standing.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CIVL_V 445-T1A	CIVL_V	445	T1A	Civil Engineering Design Project I	W1	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering project. Focus on conceptual and preliminary design. This course is not eligible for Credit/D/Fail grading. [2*-0-4] Prerequisite: CIVL 203. and fourth-year standing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
CIVL_V 445-T1B	CIVL_V	445	T1B	Civil Engineering Design Project I	W1	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering project. Focus on conceptual and preliminary design. This course is not eligible for Credit/D/Fail grading. [2*-0-4] Prerequisite: CIVL 203. and fourth-year standing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
CIVL_V 445-T1C	CIVL_V	445	T1C	Civil Engineering Design Project I	W1	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering project. Focus on conceptual and preliminary design. This course is not eligible for Credit/D/Fail grading. [2*-0-4] Prerequisite: CIVL 203. and fourth-year standing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
CIVL_V 445-T1D	CIVL_V	445	T1D	Civil Engineering Design Project I	W1	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering project. Focus on conceptual and preliminary design. This course is not eligible for Credit/D/Fail grading. [2*-0-4] Prerequisite: CIVL 203. and fourth-year standing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
CIVL_V 446-201	CIVL_V	446	201	Civil Engineering Design Project II	W2	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering design project. Focus on detailed design. This course is not eligible for Credit/D/Fail grading. [2*-0-2] Prerequisite: CIVL 445.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.

CIVL_V 446-T2A	CIVL_V	446		T2A	Civil Engineering Design Project II	W2	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering design project. Focus on detailed design. This course is not eligible for Credit/D/Fail grading. [2*-0-2] Prerequisite: CIVL 445.	In Person Learning	Tue Thu	9:30 a.m. - 11:30 a.m.
CIVL_V 446-T2B	CIVL_V	446		T2B	Civil Engineering Design Project II	W2	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering design project. Focus on detailed design. This course is not eligible for Credit/D/Fail grading. [2*-0-2] Prerequisite: CIVL 445.	In Person Learning	Tue Thu	9:30 a.m. - 11:30 a.m.
CIVL_V 446-T2C	CIVL_V	446		T2C	Civil Engineering Design Project II	W2	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering design project. Focus on detailed design. This course is not eligible for Credit/D/Fail grading. [2*-0-2] Prerequisite: CIVL 445.	In Person Learning	Tue Thu	9:30 a.m. - 11:30 a.m.
CIVL_V 446-T2D	CIVL_V	446		T2D	Civil Engineering Design Project II	W2	Integration and application of previously acquired knowledge and skills to find design solutions for a multi-disciplinary civil engineering design project. Focus on detailed design. This course is not eligible for Credit/D/Fail grading. [2*-0-2] Prerequisite: CIVL 445.	In Person Learning	Tue Thu	9:30 a.m. - 11:30 a.m.
CIVL_V 478-201	CIVL_V	478		201	Building Science	W2	Building science concepts associated with the design of modern buildings, focusing particularly on the building envelope's role in environmental separation, controlling the movement of heat, air, and water in liquid and vapour states. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
CIVL_V 492-D_101	CIVL_V	492	D	D_101	Directed Studies in Civil Engineering	W1	Independent studies on a special topic. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CIVL_V 498-A_101	CIVL_V	498	A	A_101	Topics in Civil Engineering	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 498-M_101	CIVL_V	498	M	M_101	Topics in Civil Engineering	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CIVL_V 498-N_201	CIVL_V	498	N	N_201	Topics in Civil Engineering	W2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
CIVL_V 498-R_201	CIVL_V	498	R	R_201	Topics in Civil Engineering	W2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
CIVL_V 498-S_201	CIVL_V	498	S	S_201	Topics in Civil Engineering	W2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
CIVL_V 504-101	CIVL_V	504		101	Seismic Hazard Analysis and Design Parameters	W1	Causes and characteristics of earthquakes. Properties of ground motion records. Estimation of ground motion intensity and analysis of attenuation relationships. Probabilistic and deterministic seismic hazard analysis for both sites and regions. Selection of earthquake records and construction of design spectra. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
CIVL_V 504-201	CIVL_V	504		201	Seismic Hazard Analysis and Design Parameters	W2	Causes and characteristics of earthquakes. Properties of ground motion records. Estimation of ground motion intensity and analysis of attenuation relationships. Probabilistic and deterministic seismic hazard analysis for both sites and regions. Selection of earthquake records and construction of design spectra. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 505-201	CIVL_V	505		201	Principles of Earthquake Engineering and Seismic Design	W2	Response of structures to earthquakes; concept of ductility; understanding and applications of seismic design codes for buildings; quasi-static, modal, and nonlinear analyses; modelling of structures; design of structures using energy dissipation devices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:30 p.m. - 3:30 p.m.
CIVL_V 507-101	CIVL_V	507		101	Dynamics of Structures I	W1	Fundamental analysis of simple structures subjected to dynamic loadings; vibration problems in structures; linear and nonlinear structural response of simple systems; numerical methods for practical vibration analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
CIVL_V 508-201	CIVL_V	508		201	Dynamics of Structures II	W2	Dynamic response of discrete and continuous systems; structural property matrices and eigenvalue problem; introduction to random vibrations; wave propagation analysis; experimental techniques and computer modelling. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CIVL_V 509-201	CIVL_V	509		201	Nonlinear Structural Analysis	W2	Nonlinear behaviour of structures and the formulation of elements to model such behaviour; solution strategies; nonlinear material and section response; nonlinear dynamic analysis; nonlinear geometry; application of nonlinear analysis in engineering practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
CIVL_V 511-101	CIVL_V	511		101	Seismic Design of Steel Structures	W1	Nonlinear behavior and modeling of steel structures; plastic analysis of steel structures; seismic design of steel buildings. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
CIVL_V 513-201	CIVL_V	513		201	Concrete Structures	W2	Mechanics of structural concrete; comparison of analytical predictions and experimental results; simplified procedure; design using strut-and-tie models; seismic design of concrete buildings This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
CIVL_V 516-201	CIVL_V	516		201	Behaviour of Timber Structures	W2	Behaviour of timber structural elements using limit states design principles; joints and fasteners, sawn lumber and engineered wood products, light frame systems and shear walls. Credit will be granted for only one of CIVL 439 or CIVL 516. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
CIVL_V 517-101	CIVL_V	517		101	Advanced Topics in Timber Structures	W1	Design of timber structural systems using limit states design principles; non-standard connectors, timber-concrete composites, cross-laminated timber and hybrid systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CIVL_V 518-101	CIVL_V	518		101	Reliability and Structural Safety	W1	Probability theory and random variables. Performance functions and probability of non-performance: simulations and FORM/SORM methods. Applications. System reliability. Time-dependent reliability and introduction to stochastic processes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.

CIVL_V 520-101	CIVL_V	520	101	Construction Planning and Control	W1	Planning of civil engineering projects using networking techniques and time space methods. Treatment of resources and cash flow. Activity planning. Concepts of control at the project and activity levels. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CIVL_V 521-201	CIVL_V	521	201	Construction Methods and Performance	W2	Case studies in construction methods and solutions to construction site operation problems. Construction productivity, performance measurement, safety, quality, and other production issues. Credit will be granted for only one of CIVL 425 or CIVL 521. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
CIVL_V 522-201	CIVL_V	522	201	Project and Construction Economics	W2	Application of the principles of engineering economics, economics and systems analysis techniques to the mathematical modelling of civil engineering projects. Topics treated: modelling of capital expenditures, revenues and operating expenditures, project financing, sensitivity analysis, risk analysis and management. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
CIVL_V 523-201	CIVL_V	523	201	Project Management for Engineers	W2	Perspectives of project management as it relates to civil engineering. Case studies are used to illustrate key issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
CIVL_V 524-101	CIVL_V	524	101	Legal Aspects of Project and Construction Management	W1	Legal issues of construction contracts, bidding processes, negligence, insurance, bonding, liens, and labour law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:30 p.m. - 6:30 p.m.
CIVL_V 526-201	CIVL_V	526	201	Virtual Design and Construction	W2	Building information modelling (BIM), 4D/5D modelling, design coordination, BIM execution and performance assessment, and integrated project delivery methods. Credit will be granted for only one of CIVL 426 or CIVL 526. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CIVL_V 529-101	CIVL_V	529	101	Condition Assessment and Rehabilitation of Civil Infrastructure	W1	Non-destructive testing; repair and strengthening; high performance plain, polymer-modified, and fibre-reinforced concrete; shotcrete; fibre-reinforced polymer sprays; wraps and laminates; structural health monitoring using sensors; case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
CIVL_V 537-201	CIVL_V	537	201	Computational Mechanics I	W2	Numerical techniques, weighted residual methods, finite differences, finite elements. Formulations using energy principles, shape functions, conformity, stiffness and mass matrices. Consistent load vectors. Applications to linear problems. Numerical integration and equation solvers. Dynamic problems. Introduction to nonlinear problems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CIVL_V 540-101	CIVL_V	540	101	Advanced Coastal Engineering	W1	Wave theories; wave shoaling, refraction, diffraction and reflection; tides and currents; random waves; wave generation; coastal structures; sedimentation; mixing processes; harbours design; coastal modelling. Credit will be granted for only one of CIVL 417 or CIVL 540. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 540-201	CIVL_V	540	201	Advanced Coastal Engineering	W2	Wave theories; wave shoaling, refraction, diffraction and reflection; tides and currents; random waves; wave generation; coastal structures; sedimentation; mixing processes; harbours design; coastal modelling. Credit will be granted for only one of CIVL 417 or CIVL 540. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 4:30 p.m.
CIVL_V 541-201	CIVL_V	541	201	Environmental Fluid Mechanics	W2	Analysis of density stratified flows with application to water quality problems in inland and coastal waters. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
CIVL_V 542-201	CIVL_V	542	201	Physical Limnology	W2	Physical processes that affect the behaviour of lakes, including reservoirs, water filled mine pits, mine tailings ponds and other standing water bodies. Impacts of these processes on water quality, and methods used in the rehabilitation of lakes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 543-101	CIVL_V	543	101	Turbulent Fluid Dynamics	W1	Physical and mathematical models of turbulent flow suitable for engineering estimates and predictions. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Thu	2:00 p.m. - 3:30 p.m.
CIVL_V 551-101	CIVL_V	551	101	Advanced Hydrology	W1	Modelling hydrologic processes. Flow forecasting models for watersheds. Hydrology in a global perspective. Hydrological measurement techniques. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
CIVL_V 555-201	CIVL_V	555	201	Optimization and Heuristic Approaches for Civil Engineering Systems	W2	Optimization and simulation and their use in civil engineering design, analysis, and operation. Problem formulation, classical solution techniques, and heuristic approaches, and their applications to the disciplines within civil engineering are addressed. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CIVL_V 558-201	CIVL_V	558	201	Dam Infrastructure in British Columbia	W2	Case history studies of hydroelectric projects and water supply dams. Emphasis on the engineering works of Karl Terzaghi and current environmental aspects of those projects. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 560-101	CIVL_V	560	101	Low-Pressure Membranes for Water Treatment	W1	Parameters governing contaminant removal and system throughput in microfiltration and ultrafiltration for drinking water and wastewater treatment. This course is not eligible for Credit/D/Fail grading. [3-0-0].	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CIVL_V 561-201	CIVL_V	561	201	Risk and Remediation in Geo-environment	W2	Sampling; investigations; fate and transport of chemicals in soil, water, sediment, biota and air; exposure pathways assessment and toxicological principles for receptors; risk-based approach to site remediation, treatment and control technologies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
CIVL_V 562-101	CIVL_V	562	101	Environmental Data Collection and Analysis	W1	Development and application of sampling and data analysis programs as they apply to environmental engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
CIVL_V 565-201	CIVL_V	565	201	Physical-Chemical Treatment Processes	W2	Development of the principles of selected physical and chemical treatment unit operations. Applications in both water and wastewater treatment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CIVL_V 566-201	CIVL_V	566	201	Fate of Contaminants in Aquatic Systems	W2	Fate of contaminants in inland and coastal waters. Pollutants associated with pulp mills, waste treatment plants, mining operations and other sources. Natural processes (physical, chemical, and biological) affecting the ultimate fate and impact of these pollutants. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
CIVL_V 569-101	CIVL_V	569	101	Environmental Biotechnology	W1	Development of the principles of secondary, biological treatment processes, with application to both municipal and industrial wastewater treatment. Discussion of different treatment methodology, incorporating both aerobic and anaerobic microbiological processes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

CIVL_V 570-101	CIVL_V	570	101	Advanced Soil Mechanics	W1	Soil composition and geological factors affecting engineering properties, stress and strain at a point, principle of effective stress, stress-strain relations; theories of primary and secondary consolidation, settlement; shear testing equipment, stress-strain and strength behaviour of soil under static and dynamic loading. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CIVL311]	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
CIVL_V 574-201	CIVL_V	574	201	Experimental Soil Mechanics	W2	Field and laboratory experimental studies of advanced aspects of soil behaviour; compressibility; shear strength; pore water pressure; dynamic tests; advanced instrumentation and measurement techniques; research reports required. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CIVL570]	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
CIVL_V 581-201	CIVL_V	581	201	Soil Dynamics for Design Practice	W2	Seismic loading and its effect on earth structures; dynamic response of single, and multi-degree of freedom systems and continuous systems; behaviour of soil under dynamic loading; pore pressure generation and liquefaction effects; seismicity and seismic design parameters; dynamic analysis of earth structures; seismic design of soil-structure systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: CIVL 570.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
CIVL_V 582-101	CIVL_V	582	101	Transportation Engineering Impacts	W1	Methods to measure, predict and evaluate impacts of transportation modes. Discussion of measures to reduce impacts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Fri	9:30 a.m. - 11:00 a.m.
CIVL_V 583-201	CIVL_V	583	201	Urban Engineering Methods and Models	W2	The application of urban analysis methods and models to the design of municipal and transportation engineering systems. Credit will be granted for only one of CIVL 441, CIVL 583 or PLAN 535. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:30 p.m. - 6:30 p.m.
CIVL_V 585-101	CIVL_V	585	101	Pedestrian and Bicycle Transportation Design	W1	Design of transportation facilities for people walking, cycling, or rolling on non- or lightly-motorized vehicles (active travellers). Geometry and traffic controls for sidewalks, bike lanes, shared streets, and off-street paths. Traveller and contextual factors influencing facility use and performance, including safety, comfort, accessibility, and equity. Credit will be given for one of CIVL 585 or PLAN 548L. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Wed Fri	1:30 p.m. - 3:00 p.m.
CIVL_V 586-101	CIVL_V	586	101	Urban Transportation System Analysis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
CIVL_V 597-102	CIVL_V	597	102	Seminar	W1	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CIVL_V 597-103	CIVL_V	597	103	Seminar	W1	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CIVL_V 597-104	CIVL_V	597	104	Seminar	W1	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CIVL_V 597-105	CIVL_V	597	105	Seminar	W1	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:30 p.m. - 5:00 p.m.
CIVL_V 597-106	CIVL_V	597	106	Seminar	W1	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:30 p.m. - 5:00 p.m.
CIVL_V 597-107	CIVL_V	597	107	Seminar	W1	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:30 p.m. - 5:00 p.m.
CIVL_V 597-108	CIVL_V	597	108	Seminar	W1	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
CIVL_V 597-202	CIVL_V	597	202	Seminar	W2	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CIVL_V 597-203	CIVL_V	597	203	Seminar	W2	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CIVL_V 597-204	CIVL_V	597	204	Seminar	W2	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CIVL_V 597-205	CIVL_V	597	205	Seminar	W2	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:30 p.m. - 5:00 p.m.
CIVL_V 597-206	CIVL_V	597	206	Seminar	W2	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:30 p.m. - 5:00 p.m.
CIVL_V 597-207	CIVL_V	597	207	Seminar	W2	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:30 p.m. - 5:00 p.m.
CIVL_V 597-208	CIVL_V	597	208	Seminar	W2	Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
CIVL_V 598-A_101	CIVL_V	598	A	A_101 Topics in Civil Engineering	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.

CIVL_V 598-J_201	CIVL_V	598	J	J_201	Topics in Civil Engineering	W2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CIVL_V 598-M_001	CIVL_V	598	M	M_001	Topics in Civil Engineering	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CIVL_V 598-N_201	CIVL_V	598	N	N_201	Topics in Civil Engineering	W2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
CIVL_V 598-S_201	CIVL_V	598	S	S_201	Topics in Civil Engineering	W2	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
CIVL_V 598-W_101	CIVL_V	598	W	W_101	Topics in Civil Engineering	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CIVL_V 598-X_101	CIVL_V	598	X	X_101	Topics in Civil Engineering	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 598-Y_101	CIVL_V	598	Y	Y_101	Topics in Civil Engineering	W1	Seminar or lecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
CIVL_V 599-101	CIVL_V	599		101	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 599-201	CIVL_V	599		201	M.A.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CIVL_V 699-101	CIVL_V	699		101	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
CIVL_V 699-201	CIVL_V	699		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
CLST_V 111-101	CLST_V	111		101	Late Republican and Early Imperial Rome	W1	The history and culture, values, and achievements of Late Republican and Early Imperial Rome.	In Person Learning	Arranged	Arranged
CMST_V 500-001	CMST_V	500		001	Research Methods	W1	Credit will be granted for only one of FIST 500 or CMST 500. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 500.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
CMST_V 510-001	CMST_V	510		001	Advanced Theory, Film and Media	W1	Current trends and topics in scholarship, based on an intensive look at a few key theorists and theories. Credit will be granted for only one of FIST 510 or CMST 510. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 510.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CMST_V 520-001	CMST_V	520		001	Advanced Cinema and Media Criticism	W2	Film and media criticism, with detailed interrogation of conceptual foundations and contemporary case-studies. Credit will be granted for only one of FIST 520 or CMST 520. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 520	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
CMST_V 534-B_001	CMST_V	534	B	B_001	Seminar in Cinema Studies	W2	Topics to be arranged. Credit will be granted for only one of FIST 534 or CMST 534. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 534	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
CMST_V 547-A_001	CMST_V	547	A	A_001	Directed Studies in Cinema and Media	W1	Credit will be granted for only one of FIST 547 or CMST 547. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 547.	In Person Learning	Arranged	Arranged
CMST_V 547-B_001	CMST_V	547	B	B_001	Directed Studies in Cinema and Media	W2	Credit will be granted for only one of FIST 547 or CMST 547. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 547.	In Person Learning	Arranged	Arranged
CMST_V 549-A_002	CMST_V	549	A	A_002	Thesis	W1-2	Credit will be granted for only one of FIST 549 or CMST 549. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 549.	In Person Learning	Arranged	Arranged
CMST_V 549-B_001	CMST_V	549	B	B_001	Thesis	W1	Credit will be granted for only one of FIST 549 or CMST 549. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 549.	In Person Learning	Arranged	Arranged
CMST_V 549-C_001	CMST_V	549	C	C_001	Thesis	W1-2	Credit will be granted for only one of FIST 549 or CMST 549. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 549.	In Person Learning	Arranged	Arranged
CMST_V 649-001	CMST_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
CNPS_V 331-010	CNPS_V	331		010	Communication Skills in Global Contexts	W1	A diversity of communication skills are essential when working in international contexts. The focus of this course is on developing specific skill sets for expanding effective communication competence in a diversity of contexts.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.

CNPS_V 362-001	CNPS_V	362	001	Basic Interviewing Skills	W1	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
CNPS_V 362-002	CNPS_V	362	002	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Tue	10:30 a.m. - 12:00 p.m.
CNPS_V 362-003	CNPS_V	362	003	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Tue	1:00 p.m. - 2:30 p.m.
CNPS_V 362-L1A	CNPS_V	362	L1A	Basic Interviewing Skills	W1	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Wed	12:00 p.m. - 1:30 p.m.
CNPS_V 362-L1B	CNPS_V	362	L1B	Basic Interviewing Skills	W1	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Wed	2:00 p.m. - 3:30 p.m.
CNPS_V 362-L1C	CNPS_V	362	L1C	Basic Interviewing Skills	W1	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Thu	12:00 p.m. - 1:30 p.m.
CNPS_V 362-L1D	CNPS_V	362	L1D	Basic Interviewing Skills	W1	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
CNPS_V 362-L2A	CNPS_V	362	L2A	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Tue	12:00 p.m. - 1:30 p.m.
CNPS_V 362-L2B	CNPS_V	362	L2B	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
CNPS_V 362-L2C	CNPS_V	362	L2C	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Wed	12:00 p.m. - 1:30 p.m.
CNPS_V 362-L2D	CNPS_V	362	L2D	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Wed	2:00 p.m. - 3:30 p.m.
CNPS_V 362-L3A	CNPS_V	362	L3A	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Thu	12:00 p.m. - 1:30 p.m.
CNPS_V 362-L3B	CNPS_V	362	L3B	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
CNPS_V 362-L3C	CNPS_V	362	L3C	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Fri	12:00 p.m. - 1:30 p.m.
CNPS_V 362-L3D	CNPS_V	362	L3D	Basic Interviewing Skills	W2	Development of basic interviewing skills for counselling and guidance. [3-3]	In Person Learning	Fri	2:00 p.m. - 3:30 p.m.
CNPS_V 363-63A	CNPS_V	363	63A	Career Counselling	W1	Critical survey of career counselling theory and practice. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 363-63B	CNPS_V	363	63B	Career Counselling	W1	Critical survey of career counselling theory and practice. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 363-63C	CNPS_V	363	63C	Career Counselling	W1	Critical survey of career counselling theory and practice. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 363-63D	CNPS_V	363	63D	Career Counselling	W2	Critical survey of career counselling theory and practice. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 363-63E	CNPS_V	363	63E	Career Counselling	W2	Critical survey of career counselling theory and practice. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 363-63F	CNPS_V	363	63F	Career Counselling	W2	Critical survey of career counselling theory and practice. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 363-63G	CNPS_V	363	63G	Career Counselling	W1	Critical survey of career counselling theory and practice. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 364-63A	CNPS_V	364	63A	Family Education and Consultation	W1	Examination of current theories and practices in family education and consultation. [3-0]	Online Learning	Arranged	Arranged

CNPS_V 364-63B	CNPS_V	364	63B	Family Education and Consultation	W1	Examination of current theories and practices in family education and consultation. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 364-63C	CNPS_V	364	63C	Family Education and Consultation	W2	Examination of current theories and practices in family education and consultation. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 364-63D	CNPS_V	364	63D	Family Education and Consultation	W2	Examination of current theories and practices in family education and consultation. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 364-63E	CNPS_V	364	63E	Family Education and Consultation	W1	Examination of current theories and practices in family education and consultation. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 365-63A	CNPS_V	365	63A	Introduction to Theories of Counselling	W1	An overview of selected theories of counselling. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 365-63B	CNPS_V	365	63B	Introduction to Theories of Counselling	W1	An overview of selected theories of counselling. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 365-63C	CNPS_V	365	63C	Introduction to Theories of Counselling	W1	An overview of selected theories of counselling. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 365-63D	CNPS_V	365	63D	Introduction to Theories of Counselling	W2	An overview of selected theories of counselling. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 365-63E	CNPS_V	365	63E	Introduction to Theories of Counselling	W2	An overview of selected theories of counselling. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 365-63F	CNPS_V	365	63F	Introduction to Theories of Counselling	W2	An overview of selected theories of counselling. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 426-63A	CNPS_V	426	63A	The Role of the Teacher in Guidance	W1-2	This course is designed to assist the teacher in understanding and using guidance techniques for day-to-day use in the classroom. The emphasis will be on techniques for working with people towards better self-understanding and better perspectives of alternatives. [2-1]	Online Learning	Arranged	Arranged
CNPS_V 427-63A	CNPS_V	427	63A	Guidance: Planning and Decision-making	W1	The work of the beginning counsellor and guidance worker in assisting students with educational, vocational, and personal planning and decision-making. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 427-63C	CNPS_V	427	63C	Guidance: Planning and Decision-making	W2	The work of the beginning counsellor and guidance worker in assisting students with educational, vocational, and personal planning and decision-making. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 427-63D	CNPS_V	427	63D	Guidance: Planning and Decision-making	W2	The work of the beginning counsellor and guidance worker in assisting students with educational, vocational, and personal planning and decision-making. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 427-63E	CNPS_V	427	63E	Guidance: Planning and Decision-making	W2	The work of the beginning counsellor and guidance worker in assisting students with educational, vocational, and personal planning and decision-making. [3-0]	Online Learning	Arranged	Arranged
CNPS_V 433-63A	CNPS_V	433	63A	The Personal and Social Development of the Adult	W1	Personal and social adjustment issues for professional counsellors; basic skills necessary for effective group counselling. [3-3]	Online Learning	Arranged	Arranged
CNPS_V 433-63B	CNPS_V	433	63B	The Personal and Social Development of the Adult	W1	Personal and social adjustment issues for professional counsellors; basic skills necessary for effective group counselling. [3-3]	Online Learning	Arranged	Arranged
CNPS_V 433-63C	CNPS_V	433	63C	The Personal and Social Development of the Adult	W1	Personal and social adjustment issues for professional counsellors; basic skills necessary for effective group counselling. [3-3]	Online Learning	Arranged	Arranged
CNPS_V 433-63D	CNPS_V	433	63D	The Personal and Social Development of the Adult	W2	Personal and social adjustment issues for professional counsellors; basic skills necessary for effective group counselling. [3-3]	Online Learning	Arranged	Arranged
CNPS_V 433-63E	CNPS_V	433	63E	The Personal and Social Development of the Adult	W2	Personal and social adjustment issues for professional counsellors; basic skills necessary for effective group counselling. [3-3]	Online Learning	Arranged	Arranged
CNPS_V 433-63F	CNPS_V	433	63F	The Personal and Social Development of the Adult	W2	Personal and social adjustment issues for professional counsellors; basic skills necessary for effective group counselling. [3-3]	Online Learning	Arranged	Arranged
CNPS_V 433-63G	CNPS_V	433	63G	The Personal and Social Development of the Adult	W1	Personal and social adjustment issues for professional counsellors; basic skills necessary for effective group counselling. [3-3]	Online Learning	Arranged	Arranged
CNPS_V 504-001	CNPS_V	504	001	School Counselling	W1	Theory and practice of school counselling. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.

CNPS_V 514-001	CNPS_V	514	001	Counselling Adolescents	W1	Theory, research, and practice of counselling adolescents. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
CNPS_V 524-001	CNPS_V	524	001	Counselling Adults	W1	Major issues and problems of adult development. Selection of appropriate counselling interventions for use in education and other counselling settings. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
CNPS_V 532-B_001	CNPS_V	532	B	B_001	Psychological Assessment in Counselling	W2	The use of standardized measures of mental ability, achievement, aptitude, interest and personality. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
CNPS_V 564-003	CNPS_V	564	003	Group Counselling	W2	Understanding, designing and knowledge of groups and how to conduct them for use in counselling and guidance services. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
CNPS_V 569-074	CNPS_V	569	074	Social Psychological Foundations in Applied Psychology	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: EPSE569	In Person Learning	Arranged	Arranged	
CNPS_V 574-001	CNPS_V	574	001	Career Planning and Decision-Making Counselling	W1	Theory, research, and practice of career planning and decision counselling. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CNPS363]	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.	
CNPS_V 578-C_002	CNPS_V	578	C	C_002	Individual and Family Counselling Theories and Interventions	W1-2	Major counselling theories, interventions for change and corresponding skill development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CNPS362, CNPS365] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
CNPS_V 579-001	CNPS_V	579	001	Research in Counselling Psychology	W1	Assumptions and methods of major research paradigms. This course is not eligible for Credit/D/Fail grading. Prerequisite: [EDUC500, EPSE481] AND [EPSE482, EPSE483]	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.	
CNPS_V 580-A_001	CNPS_V	580	A	A_001	Problems in Education	W1	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CNPS_V 580-B_002	CNPS_V	580	B	B_002	Problems in Education	W2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CNPS_V 580-C_003	CNPS_V	580	C	C_003	Problems in Education	W1-2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CNPS_V 580-C_004	CNPS_V	580	C	C_004	Problems in Education	W2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CNPS_V 584-002	CNPS_V	584	002	Program Development and Professional Practice in Counselling	W2	Designing, implementing and assessing counselling programs in schools, colleges, universities, and other counselling settings. Recommended pre-requisites: one of EDUC 500, EPSE 481 and one of EPSE 482, EPSE 483. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.	
CNPS_V 586-002	CNPS_V	586	002	Ethics in Counselling Psychology	W2	Ethical decision-making and legal issues in counselling psychology research and practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
CNPS_V 588-C_001	CNPS_V	588	C	C_001	Supervised Training in Counselling	W1-2	Initial counselling experience under faculty supervision in department training centres. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CNPS_V 588-C_002	CNPS_V	588	C	C_002	Supervised Training in Counselling	W1-2	Initial counselling experience under faculty supervision in department training centres. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	3:00 p.m. - 9:00 p.m.
CNPS_V 588-C_003	CNPS_V	588	C	C_003	Supervised Training in Counselling	W1-2	Initial counselling experience under faculty supervision in department training centres. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	9:00 a.m. - 3:00 p.m.
CNPS_V 588-C_004	CNPS_V	588	C	C_004	Supervised Training in Counselling	W1-2	Initial counselling experience under faculty supervision in department training centres. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	3:00 p.m. - 9:00 p.m.
CNPS_V 588-C_005	CNPS_V	588	C	C_005	Supervised Training in Counselling	W1-2	Initial counselling experience under faculty supervision in department training centres. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	9:00 a.m. - 3:00 p.m.
CNPS_V 588-C_006	CNPS_V	588	C	C_006	Supervised Training in Counselling	W1-2	Initial counselling experience under faculty supervision in department training centres. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	9:00 a.m. - 3:00 p.m.
CNPS_V 588-C_PH1	CNPS_V	588	C	C_PH1	Supervised Training in Counselling	W1	Initial counselling experience under faculty supervision in department training centres. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CNPS_V 598-C_001	CNPS_V	598	C	C_001	Field Experiences	W1-2	For students in the master's program. Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.

CNPS_V 598-H_001	CNPS_V	598	H	H_001	Field Experiences	W1	For students in the master's program. Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CNPS_V 598-H_002	CNPS_V	598	H	H_002	Field Experiences	W2	For students in the master's program. Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CNPS_V 598-H_003	CNPS_V	598	H	H_003	Field Experiences	W1-2	For students in the master's program. Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CNPS_V 599-C_001	CNPS_V	599	C	C_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CNPS_V 599-C_002	CNPS_V	599	C	C_002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CNPS_V 599-C_003	CNPS_V	599	C	C_003	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CNPS_V 632-001	CNPS_V	632		001	Advanced Assessment	W2	Counselling psychology research and practice in adult personality assessment, including ethics of testing and use with special populations. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PSYC303, EPSE528] AND [CNPS532]	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
CNPS_V 669-A_001	CNPS_V	669	A	A_001	Research Approaches in Counselling Psychology	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
CNPS_V 678-A_001	CNPS_V	678	A	A_001	Theoretical Perspectives in Counselling Psychology	W1-2	Major theoretical traditions in Counselling Psychology and illustration of the links among theory, research and practices; perspectives on Counselling Psychology as a distinct field of specialization. This course is not eligible for Credit/D/Fail grading. Supervision requires both knowledge of supervision models and practices, and skills to implement them. This course involves a seminar and practicum to integrate the two requirements of the subject. (For those on the Doctoral program.) Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
CNPS_V 688-001	CNPS_V	688		001	Supervision of Counselling Practice	W1-2		In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
CNPS_V 698-001	CNPS_V	698		001	Pre-Doctoral Internship	W1-2	A 1600-hour supervised internship in Counselling Psychology. Internship sites offer counselling services as detailed in the Speciality Guidelines for the Delivery of Services by Counselling Psychologists (APA). Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CNPS_V 699-001	CNPS_V	699		001	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
CNPS_V 699-002	CNPS_V	699		002	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged
CNPS_V 699-003	CNPS_V	699		003	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged
CNTO_V 301-011	CNTO_V	301		011	Basic Cantonese I	W1	Elementary level (part I) course in Cantonese for non-heritage learners with no prior exposure to or background in Cantonese. Focus on training for basic listening and conversational skills in Cantonese. Heritage speakers of Mandarin are NOT eligible. Recommended pre-requisites: one of CHIN 107, CHIN 233, CHIN 108, CHIN 234, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	1:00 p.m. - 2:00 p.m.
CNTO_V 303-021	CNTO_V	303		021	Basic Cantonese II	W2	Elementary level (part II) Cantonese for non-heritage learners. Continuation of CNTO 301. Focus on training for basic listening, conversational, and reading skills. Recommended pre-requisite: CNTO 301 or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	1:00 p.m. - 2:00 p.m.
CNTO_V 311-011	CNTO_V	311		011	Basic Cantonese for Mandarin Speakers	W1	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	2:00 p.m. - 3:00 p.m.
CNTO_V 311-012	CNTO_V	311		012	Basic Cantonese for Mandarin Speakers	W1	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	3:00 p.m. - 4:00 p.m.
CNTO_V 311-013	CNTO_V	311		013	Basic Cantonese for Mandarin Speakers	W1	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 4:00 p.m.
CNTO_V 311-015	CNTO_V	311		015	Basic Cantonese for Mandarin Speakers	W1	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	9:00 a.m. - 10:00 a.m.
CNTO_V 311-016	CNTO_V	311		016	Basic Cantonese for Mandarin Speakers	W1	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	11:00 a.m. - 12:00 p.m.
CNTO_V 311-017	CNTO_V	311		017	Basic Cantonese for Mandarin Speakers	W1	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu Fri	2:00 p.m. - 3:00 p.m.

CNTO_V 311-018	CNTO_V	311	018	Basic Cantonese for Mandarin Speakers	W1	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu Fri	1:00 p.m. - 2:00 p.m.
CNTO_V 311-021	CNTO_V	311	021	Basic Cantonese for Mandarin Speakers	W2	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	2:00 p.m. - 3:00 p.m.
CNTO_V 311-022	CNTO_V	311	022	Basic Cantonese for Mandarin Speakers	W2	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	3:00 p.m. - 4:00 p.m.
CNTO_V 311-023	CNTO_V	311	023	Basic Cantonese for Mandarin Speakers	W2	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 4:00 p.m.
CNTO_V 311-024	CNTO_V	311	024	Basic Cantonese for Mandarin Speakers	W2	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	10:00 a.m. - 11:00 a.m.
CNTO_V 311-025	CNTO_V	311	025	Basic Cantonese for Mandarin Speakers	W2	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	12:00 p.m. - 1:00 p.m.
CNTO_V 311-026	CNTO_V	311	026	Basic Cantonese for Mandarin Speakers	W2	Basic oral and presentation skills in Cantonese. This is an accelerated course that covers content and topics similar to CNTO 301 and CNTO 303, but is structured specifically for heritage speakers of Mandarin. Recommended pre-requisites: one of CHIN 243, CHIN 244, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu Fri	2:00 p.m. - 3:00 p.m.
CNTO_V 401-011	CNTO_V	401	011	Intermediate Cantonese I	W1	Intermediate lower level (part I) Cantonese for non-heritage learners. Recommended pre-requisites: One of CNTO 303, CNTO 311, or placement approval. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CNTO_V 401-021	CNTO_V	401	021	Intermediate Cantonese I	W2	Intermediate lower level (part I) Cantonese for non-heritage learners. Recommended pre-requisites: One of CNTO 303, CNTO 311, or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	12:00 p.m. - 1:00 p.m.
CNTO_V 403-011	CNTO_V	403	011	Intermediate Cantonese II	W1	Intermediate lower level (part II) Cantonese for non-heritage learners. Continuation of CNTO 401. Recommended pre-requisite: CNTO 401 or placement approval. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu Fri	12:00 p.m. - 1:00 p.m.
CNTO_V 451-021	CNTO_V	451	021	Advanced Cantonese through Popular Culture	W2	Popular culture in Hong Kong from media such as television, cinema, popular music, literature, social media, etc., through advanced authentic Cantonese listening and reading materials. Open to non-heritage and heritage speakers of Mandarin and/or Cantonese. Recommended pre-requisite: CNTO 401. Prior to registration, a minimum of 9 credits of 300-level ASIA coursework is strongly recommended. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu	3:00 p.m. - 4:00 p.m.
COEC_V 293-002	COEC_V	293	002	Financial Accounting	W2	Construction and interpretation of financial reports prepared primarily for external use. Credit will be granted for only one of COEC 293 or COMM 293. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM293	In Person Learning	Mon Wed	6:00 p.m. - 7:30 p.m.
COEC_V 294-001	COEC_V	294	001	Managerial Accounting	W2	Introduction to the development and use of accounting information for management planning and control and the development of cost information for financial reports. Credit will be granted for only one of COEC 294 or COMM 294. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COEC 293, COMM 293. Equivalency: COMM 294	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COEC_V 365-001	COEC_V	365	001	Market Research	W1	The process of marketing research including problem/opportunity formulation, research objectives, data sources, research instrument design, sampling, data collection and processing and methods of data analysis. Credit will be granted for only one of COEC 365 or COMM 365. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 315, ECON 316 or (b) ECON 308. Equivalency: COMM365	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COEC_V 370-001	COEC_V	370	001	Corporate Finance	W1	Corporate enterprise decisions including capital budgeting; capital structure choice; and financial policies, tools, and valuation. Credit will be granted for only one of COEC 370 or COMM 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 315, ECON 316 or (b) ECON 308. Equivalency: COMM370	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
COEC_V 371-001	COEC_V	371	001	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COEC 371 or COMM 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) ECON 308 or (b) all of ECON 315, ECON 316. Equivalency: COMM371	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COEC_V 371-002	COEC_V	371	002	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COEC 371 or COMM 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) ECON 308 or (b) all of ECON 315, ECON 316. Equivalency: COMM371	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COEC_V 387-001	COEC_V	387	001	Entrepreneurial Finance	W1	Financial issues encountered by those active on the investing side of entrepreneurship, such as working for banks, venture capital firms, or corporate venture organizations, or anyone interacting with entrepreneurs and private equity investors. Credit will be granted for only one of COEC 387, COMM 387, or COMR 387. Equivalency: COMM387, COMR387	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COEC_V 437-001	COEC_V	437	001	Database Technology	W2	Theory and technology of database management from an applications perspective; database design; database administration. Credit will be granted for only one of COEC 437, COMM 437, or CPSC 304. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 437	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COEC_V 475-001	COEC_V	475	001	The Economics & Policy of the Environment, Energy, and Natural Resources	W1	Economic analysis of environmental problems, energy systems, and natural resources. Policy options to help resolve these issues. Credit will be granted for only one of COEC 475, COMM 487, COMM 597, or ECON 371. Prerequisite: ECON 315 and one of ECON 316, ECON 308. Concepts and processes for the strategic management of single- and multi-business-unit private sector enterprises, analyzed using the case method. Integrates methodologies from economic and organizational theory to form the foundations for strategic analyses. Credit will be granted for only one of COEC 491 or COMM 491. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM491	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COEC_V 491-001	COEC_V	491	001	Strategic Management	W1	Economic analysis of environmental problems, energy systems, and natural resources. Policy options to help resolve these issues. Credit will be granted for only one of COEC 475, COMM 487, COMM 597, or ECON 371. Prerequisite: ECON 315 and one of ECON 316, ECON 308. Concepts and processes for the strategic management of single- and multi-business-unit private sector enterprises, analyzed using the case method. Integrates methodologies from economic and organizational theory to form the foundations for strategic analyses. Credit will be granted for only one of COEC 491 or COMM 491. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM491	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

COEC_V 497-002	COEC_V	497	002	New Enterprise Development	W2	The particular problems and experiences encountered in starting, developing, and managing new enterprises. The course includes lectures, guest speakers, and case studies. Credit will be granted for only one of COEC 497, COMM 497, or COMR 497. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM497, COMR497	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
COEC_V 498-001	COEC_V	498	001	International Business Management	W2	Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COEC 498 or COMM 498. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM498	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COGS_V 200-101	COGS_V	200	101	Introduction to Cognitive Systems	W1	Interdisciplinary examination of human mental processes and how these are mediated by the brain. Will draw on cognitive psychology, linguistics, cognitive neuroscience, philosophy, artificial intelligence. [3-0-0] Prerequisite: second-year standing in the Faculty of Arts or Science.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COGS_V 200-201	COGS_V	200	201	Introduction to Cognitive Systems	W2	Interdisciplinary examination of human mental processes and how these are mediated by the brain. Will draw on cognitive psychology, linguistics, cognitive neuroscience, philosophy, artificial intelligence. [3-0-0] Prerequisite: second-year standing in the Faculty of Arts or Science.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COGS_V 300-101	COGS_V	300	101	Understanding and Designing Cognitive Systems	W1	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COGS_V 300-201	COGS_V	300	201	Understanding and Designing Cognitive Systems	W2	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COGS_V 300-L01	COGS_V	300	L01	Understanding and Designing Cognitive Systems	W1	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
COGS_V 300-L02	COGS_V	300	L02	Understanding and Designing Cognitive Systems	W1	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
COGS_V 300-L03	COGS_V	300	L03	Understanding and Designing Cognitive Systems	W1	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
COGS_V 300-L05	COGS_V	300	L05	Understanding and Designing Cognitive Systems	W2	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
COGS_V 300-L06	COGS_V	300	L06	Understanding and Designing Cognitive Systems	W2	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
COGS_V 300-L07	COGS_V	300	L07	Understanding and Designing Cognitive Systems	W2	Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
COGS_V 303-101	COGS_V	303	101	Research Methods in Cognitive Systems	W1	Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [3-0-0] Prerequisite: COGS 200.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
COGS_V 303-102	COGS_V	303	102	Research Methods in Cognitive Systems	W1	Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [3-0-0] Prerequisite: COGS 200.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
COGS_V 303-201	COGS_V	303	201	Research Methods in Cognitive Systems	W2	Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [3-0-0] Prerequisite: COGS 200.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
COGS_V 303-202	COGS_V	303	202	Research Methods in Cognitive Systems	W2	Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [3-0-0] Prerequisite: COGS 200.	In Person Learning	Arranged	Arranged
COGS_V 401-101	COGS_V	401	101	Seminar in Cognitive Systems	W1	Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300.	In Person Learning	Arranged	Arranged
COGS_V 401-102	COGS_V	401	102	Seminar in Cognitive Systems	W1	Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COGS_V 401-201	COGS_V	401	201	Seminar in Cognitive Systems	W2	Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COGS_V 401-202	COGS_V	401	202	Seminar in Cognitive Systems	W2	Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
COGS_V 402-001	COGS_V	402	001	Research in Cognitive Systems	W1	Supervised research project in a Cognitive Systems-related laboratory. [0-9-0] Prerequisite: COGS 300. COGS 401 is recommended.	In Person Learning	Arranged	Arranged
COGS_V 402-002	COGS_V	402	002	Research in Cognitive Systems	W2	Supervised research project in a Cognitive Systems-related laboratory. [0-9-0] Prerequisite: COGS 300. COGS 401 is recommended.	In Person Learning	Arranged	Arranged

COGS_V 402-101	COGS_V	402	101	Research in Cognitive Systems	W1	Supervised research project in a Cognitive Systems-related laboratory. [0-9-0] Prerequisite: COGS 300. COGS 401 is recommended.	In Person Learning	Arranged	Arranged
COGS_V 402-201	COGS_V	402	201	Research in Cognitive Systems	W2	Supervised research project in a Cognitive Systems-related laboratory. [0-9-0] Prerequisite: COGS 300. COGS 401 is recommended.	In Person Learning	Arranged	Arranged
COHR_V 303-101	COHR_V	303	101	Strategic Staffing	W1	Processes of workforce recruitment, selection, retention, and renewal. Includes human resources planning, development of an effective staffing strategy and employer brand, job analysis and descriptions, cost-benefit analysis of various recruiting methods, analysis and evaluation of selection methods. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: COMM 203.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COHR_V 304-201	COHR_V	304	201	Training, Development, and Performance Management	W2	Employee training, development and performance management in a variety of employment settings. Application of various training methods to performance enhancement, performance appraisal, feedback, and empirical evaluation of training investments. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: COMM 203.	In Person Learning	Arranged	Arranged
COHR_V 305-201	COHR_V	305	201	Strategic Compensation	W2	Employee compensation, including pay systems, benefits systems, and rewards and recognition programs. Examination of the motivational underpinnings of compensation administration and the application of compensation principles to the achievement of employer strategic objectives. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: COMM 203.	In Person Learning	Arranged	Arranged
COHR_V 308-101	COHR_V	308	101	Labour Relations	W1	Integrated coverage of union-management relations including labour law, collective bargaining, and collective agreement administration. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: COMM 203.	In Person Learning	Arranged	Arranged
COHR_V 308-201	COHR_V	308	201	Labour Relations	W2	Integrated coverage of union-management relations including labour law, collective bargaining, and collective agreement administration. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: COMM 203.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COHR_V 405-201	COHR_V	405	201	Managing the Family Business	W2	Managing and working in a family business presents unique challenges: family issues can conflict with business issues. This course examines governance structures and tools to manage the interface between the family and the business. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: COMM 203.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COHR_V 406-201	COHR_V	406	201	International Human Resource Management	W2	Application of human resource management practices to multinational enterprises. Comparative analysis of national human resource management systems. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: COMM 203.	In Person Learning	Arranged	Arranged
COHR_V 433-201	COHR_V	433	201	Employment Law	W2	Introduction to legislation and application of legal principles that govern the employment relationship. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: All of COMM 203, COMM 393.	In Person Learning	Fri	12:30 p.m. - 3:30 p.m.
COLX_V 521-001	COLX_V	521	001	Corpus Linguistics	W1	Describe, compare, and apply the main theories used in corpus linguistics, using qualitative and quantitative corpora, to perform diachronic and synchronic analyses. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COLX_V 521-L01	COLX_V	521	L01	Corpus Linguistics	W1	Describe, compare, and apply the main theories used in corpus linguistics, using qualitative and quantitative corpora, to perform diachronic and synchronic analyses. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
COLX_V 523-001	COLX_V	523	001	Advanced Corpus Linguistics	W2	Advanced computational techniques in multilingual corpora. Language change and linguistic variation; best practices for data collection, annotation and analysis. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, COLX 521.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COLX_V 523-L01	COLX_V	523	L01	Advanced Corpus Linguistics	W2	Advanced computational techniques in multilingual corpora. Language change and linguistic variation; best practices for data collection, annotation and analysis. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, COLX 521.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
COLX_V 523-L02	COLX_V	523	L02	Advanced Corpus Linguistics	W2	Advanced computational techniques in multilingual corpora. Language change and linguistic variation; best practices for data collection, annotation and analysis. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, COLX 521.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
COLX_V 525-001	COLX_V	525	001	Computational Morphology	W2	Identify and differentiate morphological processes occurring in natural language for implementation in computational linguistics applications. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COLX_V 525-L01	COLX_V	525	L01	Computational Morphology	W2	Identify and differentiate morphological processes occurring in natural language for implementation in computational linguistics applications. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
COLX_V 525-L02	COLX_V	525	L02	Computational Morphology	W2	Identify and differentiate morphological processes occurring in natural language for implementation in computational linguistics applications. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
COLX_V 531-001	COLX_V	531	001	Machine Translation	W2	Machine translation (MT), including an ability to implement lexical translation models, discriminative training models, and syntactic models in MT. Includes noisy channel translation, phrase-based machine translation, and how to evaluate models. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COLX_V 531-L01	COLX_V	531	L01	Machine Translation	W2	Machine translation (MT), including an ability to implement lexical translation models, discriminative training models, and syntactic models in MT. Includes noisy channel translation, phrase-based machine translation, and how to evaluate models. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
COLX_V 531-L02	COLX_V	531	L02	Machine Translation	W2	Machine translation (MT), including an ability to implement lexical translation models, discriminative training models, and syntactic models in MT. Includes noisy channel translation, phrase-based machine translation, and how to evaluate models. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.

COLX_V 535-001	COLX_V	535	001	Parsing for Computational Linguistics	W2	Methods of natural language parsing: finite state approaches, class-based language models, part-of-speech tagging, NP chunking, shallow parsing, and context free syntactic parsing. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 551, COLX 521.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COLX_V 535-L01	COLX_V	535	L01	Parsing for Computational Linguistics	W2	Methods of natural language parsing: finite state approaches, class-based language models, part-of-speech tagging, NP chunking, shallow parsing, and context free syntactic parsing. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 551, COLX 521.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
COLX_V 535-L02	COLX_V	535	L02	Parsing for Computational Linguistics	W2	Methods of natural language parsing: finite state approaches, class-based language models, part-of-speech tagging, NP chunking, shallow parsing, and context free syntactic parsing. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 551, COLX 521.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
COLX_V 561-001	COLX_V	561	001	Computational Semantics	W2	Language processing to analyze lexical semantics. WordNet, FrameNet, and the semantic web, applied to word-sense disambiguation, entailment, question-answering, and knowledge base populations. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 535.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COLX_V 561-L01	COLX_V	561	L01	Computational Semantics	W2	Language processing to analyze lexical semantics. WordNet, FrameNet, and the semantic web, applied to word-sense disambiguation, entailment, question-answering, and knowledge base populations. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 535.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
COLX_V 561-L02	COLX_V	561	L02	Computational Semantics	W2	Language processing to analyze lexical semantics. WordNet, FrameNet, and the semantic web, applied to word-sense disambiguation, entailment, question-answering, and knowledge base populations. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 535.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
COLX_V 563-001	COLX_V	563	001	Advanced Computational Semantics	W2	Statistical and neural approaches to natural-language meaning in computational semantics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 561.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COLX_V 563-L01	COLX_V	563	L01	Advanced Computational Semantics	W2	Statistical and neural approaches to natural-language meaning in computational semantics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 561.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
COLX_V 563-L02	COLX_V	563	L02	Advanced Computational Semantics	W2	Statistical and neural approaches to natural-language meaning in computational semantics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 561.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
COLX_V 565-001	COLX_V	565	001	Sentiment Analysis	W2	Data crawling, annotation, evaluation, and modelling lexical information. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COLX_V 565-L01	COLX_V	565	L01	Sentiment Analysis	W2	Data crawling, annotation, evaluation, and modelling lexical information. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
COLX_V 565-L02	COLX_V	565	L02	Sentiment Analysis	W2	Data crawling, annotation, evaluation, and modelling lexical information. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
COLX_V 581-001	COLX_V	581	001	Natural Language Processing for Low-Resource Languages	W2	Computational tools in relation to low-resource and other under-documented and very-low-resource language. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 535.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COLX_V 581-L01	COLX_V	581	L01	Natural Language Processing for Low-Resource Languages	W2	Computational tools in relation to low-resource and other under-documented and very-low-resource language. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 535.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
COLX_V 581-L02	COLX_V	581	L02	Natural Language Processing for Low-Resource Languages	W2	Computational tools in relation to low-resource and other under-documented and very-low-resource language. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 535.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
COLX_V 585-001	COLX_V	585	001	Trends in Computational Linguistics	W2	Techniques for identifying, analyzing, and synthesizing primary sources for the most current research in computational linguistics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COLX_V 585-L01	COLX_V	585	L01	Trends in Computational Linguistics	W2	Techniques for identifying, analyzing, and synthesizing primary sources for the most current research in computational linguistics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
COLX_V 585-L02	COLX_V	585	L02	Trends in Computational Linguistics	W2	Techniques for identifying, analyzing, and synthesizing primary sources for the most current research in computational linguistics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
COMM_V 101-201	COMM_V	101	201	Business Fundamentals	W2	The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 101-202	COMM_V	101	202	Business Fundamentals	W2	The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 101-203	COMM_V	101	203	Business Fundamentals	W2	The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.







COMM_V 105-D28	COMM_V	105	D28	Values, Ethics, and Community	W1	An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and lay the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
COMM_V 105-D29	COMM_V	105	D29	Values, Ethics, and Community	W2	An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and lay the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 9:00 a.m.
COMM_V 105-D30	COMM_V	105	D30	Values, Ethics, and Community	W2	An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and lay the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
COMM_V 105-D31	COMM_V	105	D31	Values, Ethics, and Community	W2	An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and lay the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
COMM_V 105-D32	COMM_V	105	D32	Values, Ethics, and Community	W2	An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and lay the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
COMM_V 105-D33	COMM_V	105	D33	Values, Ethics, and Community	W2	An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and lay the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
COMM_V 105-D34	COMM_V	105	D34	Values, Ethics, and Community	W2	An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and lay the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
COMM_V 110-001	COMM_V	110	001	Dual Degree Year 1 at University of Hong Kong	W1-2	This student is registered in the Dual Degree Bachelor of Commerce program with the University of British Columbia (UBC) and the University of Hong Kong (HKU). For complete details please see the University of Hong Kong academic record.	In Person Learning	Arranged	Arranged
COMM_V 120-DD1	COMM_V	120	DD1	Business Immersion	W1	A broad introduction to the field of business and how the different disciplines within business interact and combine in business decision-making. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
COMM_V 120-DD2	COMM_V	120	DD2	Business Immersion	W1	A broad introduction to the field of business and how the different disciplines within business interact and combine in business decision-making. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:30 p.m. - 4:00 p.m.
COMM_V 120-DD3	COMM_V	120	DD3	Business Immersion	W2	A broad introduction to the field of business and how the different disciplines within business interact and combine in business decision-making. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 120-DD4	COMM_V	120	DD4	Business Immersion	W2	A broad introduction to the field of business and how the different disciplines within business interact and combine in business decision-making. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 190-101	COMM_V	190	101	Introduction to Quantitative Decision Making	W1	Introduction to decision models in business, including basic optimization, linear programming, probability, decision analysis, random variables, simulation, and solving decision problems using spreadsheet tools. Credit will be granted for only one of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 190-102	COMM_V	190	102	Introduction to Quantitative Decision Making	W1	Introduction to decision models in business, including basic optimization, linear programming, probability, decision analysis, random variables, simulation, and solving decision problems using spreadsheet tools. Credit will be granted for only one of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 190-103	COMM_V	190	103	Introduction to Quantitative Decision Making	W1	Introduction to decision models in business, including basic optimization, linear programming, probability, decision analysis, random variables, simulation, and solving decision problems using spreadsheet tools. Credit will be granted for only one of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 190-104	COMM_V	190	104	Introduction to Quantitative Decision Making	W1	Introduction to decision models in business, including basic optimization, linear programming, probability, decision analysis, random variables, simulation, and solving decision problems using spreadsheet tools. Credit will be granted for only one of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 190-101	COMM_V	190	L01	Introduction to Quantitative Decision Making	W1	Introduction to decision models in business, including basic optimization, linear programming, probability, decision analysis, random variables, simulation, and solving decision problems using spreadsheet tools. Credit will be granted for only one of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
COMM_V 190-102	COMM_V	190	L02	Introduction to Quantitative Decision Making	W1	Introduction to decision models in business, including basic optimization, linear programming, probability, decision analysis, random variables, simulation, and solving decision problems using spreadsheet tools. Credit will be granted for only one of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
COMM_V 190-103	COMM_V	190	L03	Introduction to Quantitative Decision Making	W1	Introduction to decision models in business, including basic optimization, linear programming, probability, decision analysis, random variables, simulation, and solving decision problems using spreadsheet tools. Credit will be granted for only one of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.















COMM_V 203-207	COMM_V	203	207	Managing the Employment Relationship	W2	The role of employment relations in enterprise performance. Managing employees under statutory law, collective bargaining, and progressive human resource management. Key issues in forming, developing, and maintaining a work force. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 192, COMM 292 and either (a) all of ECON 101, ECON 102 or (b) ECON 100.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 204-101	COMM_V	204	101	Logistics and Operations Management	W1	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 204-102	COMM_V	204	102	Logistics and Operations Management	W1	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 204-103	COMM_V	204	103	Logistics and Operations Management	W1	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 204-104	COMM_V	204	104	Logistics and Operations Management	W1	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 204-105	COMM_V	204	105	Logistics and Operations Management	W1	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 204-106	COMM_V	204	106	Logistics and Operations Management	W1	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 204-201	COMM_V	204	201	Logistics and Operations Management	W2	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 204-202	COMM_V	204	202	Logistics and Operations Management	W2	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 204-203	COMM_V	204	203	Logistics and Operations Management	W2	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 204-204	COMM_V	204	204	Logistics and Operations Management	W2	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 204-205	COMM_V	204	205	Logistics and Operations Management	W2	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 204-206	COMM_V	204	206	Logistics and Operations Management	W2	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 204-207	COMM_V	204	207	Logistics and Operations Management	W2	The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 205-101	COMM_V	205	101	Introduction to Management Information Systems	W1	Overview of computer technology and terminology; use of computers as managerial and administrative tools; the management of computer resources and the influence of information technology within the organization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 205-102	COMM_V	205	102	Introduction to Management Information Systems	W1	Overview of computer technology and terminology; use of computers as managerial and administrative tools; the management of computer resources and the influence of information technology within the organization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 205-103	COMM_V	205	103	Introduction to Management Information Systems	W1	Overview of computer technology and terminology; use of computers as managerial and administrative tools; the management of computer resources and the influence of information technology within the organization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 205-201	COMM_V	205	201	Introduction to Management Information Systems	W2	Overview of computer technology and terminology; use of computers as managerial and administrative tools; the management of computer resources and the influence of information technology within the organization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 205-202	COMM_V	205	202	Introduction to Management Information Systems	W2	Overview of computer technology and terminology; use of computers as managerial and administrative tools; the management of computer resources and the influence of information technology within the organization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 205-203	COMM_V	205	203	Introduction to Management Information Systems	W2	Overview of computer technology and terminology; use of computers as managerial and administrative tools; the management of computer resources and the influence of information technology within the organization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 205-204	COMM_V	205	204	Introduction to Management Information Systems	W2	Overview of computer technology and terminology; use of computers as managerial and administrative tools; the management of computer resources and the influence of information technology within the organization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 220-DD1	COMM_V	220	DD1	Business Communications	W1	An experiential course covering a broad range of business writing and communications. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.

COMM_V 220-DD2	COMM_V	220	DD2	Business Communications	W2	An experiential course covering a broad range of business writing and communications. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
COMM_V 220-DD3	COMM_V	220	DD3	Business Communications	W1	An experiential course covering a broad range of business writing and communications. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
COMM_V 220-DD4	COMM_V	220	DD4	Business Communications	W2	An experiential course covering a broad range of business writing and communications. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
COMM_V 220-DD5	COMM_V	220	DD5	Business Communications	W2	An experiential course covering a broad range of business writing and communications. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 220-dd6	COMM_V	220	dd6	Business Communications	W2	An experiential course covering a broad range of business writing and communications. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 220-DD7	COMM_V	220	DD7	Business Communications	W1	An experiential course covering a broad range of business writing and communications. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 271-101	COMM_V	271	101	Introduction to Capital Markets	W1	Roles of capital market institutions and participants. Skill development for basic financial principles in the quantitative and qualitative evaluation of bond and stock investments. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 280-101	COMM_V	280	101	Entrepreneurship	W1	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMR 280. Equivalency: COMR280	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 280-102	COMM_V	280	102	Entrepreneurship	W1	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMR 280. Equivalency: COMR280	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 280-103	COMM_V	280	103	Entrepreneurship	W1	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMR 280. Equivalency: COMR280	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 280-201	COMM_V	280	201	Entrepreneurship	W2	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMR 280. Equivalency: COMR280	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 280-202	COMM_V	280	202	Entrepreneurship	W2	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMR 280. Equivalency: COMR280	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 293-101	COMM_V	293	101	Financial Accounting	W1	Introduction to the construction and interpretation of financial reports prepared primarily for external use. Credit will be granted for only one of COMM 293, COEC 293, or COMM 320. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COEC293	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 293-102	COMM_V	293	102	Financial Accounting	W1	Introduction to the construction and interpretation of financial reports prepared primarily for external use. Credit will be granted for only one of COMM 293, COEC 293, or COMM 320. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COEC293	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 293-103	COMM_V	293	103	Financial Accounting	W1	Introduction to the construction and interpretation of financial reports prepared primarily for external use. Credit will be granted for only one of COMM 293, COEC 293, or COMM 320. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COEC293	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 294-101	COMM_V	294	101	Managerial Accounting	W1	Introduction to the development and use of accounting information for management planning and control and the development of cost information for financial reports. Credit will be granted for only one of COMM 294 or COEC 294. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COEC 293, COMM 293. Equivalency: COEC 294	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 294-102	COMM_V	294	102	Managerial Accounting	W1	Introduction to the development and use of accounting information for management planning and control and the development of cost information for financial reports. Credit will be granted for only one of COMM 294 or COEC 294. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COEC 293, COMM 293. Equivalency: COEC 294	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 294-201	COMM_V	294	201	Managerial Accounting	W2	Introduction to the development and use of accounting information for management planning and control and the development of cost information for financial reports. Credit will be granted for only one of COMM 294 or COEC 294. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COEC 293, COMM 293. Equivalency: COEC 294	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 294-202	COMM_V	294	202	Managerial Accounting	W2	Introduction to the development and use of accounting information for management planning and control and the development of cost information for financial reports. Credit will be granted for only one of COMM 294 or COEC 294. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COEC 293, COMM 293. Equivalency: COEC 294	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 294-203	COMM_V	294	203	Managerial Accounting	W2	Introduction to the development and use of accounting information for management planning and control and the development of cost information for financial reports. Credit will be granted for only one of COMM 294 or COEC 294. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COEC 293, COMM 293. Equivalency: COEC 294	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.



COMM_V 296-205	COMM_V	296	205	Introduction to Marketing	W2	Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for only one of COMM 296, COMM 420, COMM 465, or COMR 465. This course is not eligible for Credit/D/Fail grading. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 301.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 296-206	COMM_V	296	206	Introduction to Marketing	W2	Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for only one of COMM 296, COMM 420, COMM 465, or COMR 465. This course is not eligible for Credit/D/Fail grading. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 301.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 296-207	COMM_V	296	207	Introduction to Marketing	W2	Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for only one of COMM 296, COMM 420, COMM 465, or COMR 465. This course is not eligible for Credit/D/Fail grading. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 301.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 298-101	COMM_V	298	101	Introduction to Finance	W1	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 298-102	COMM_V	298	102	Introduction to Finance	W1	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 298-103	COMM_V	298	103	Introduction to Finance	W1	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 298-201	COMM_V	298	201	Introduction to Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 298-202	COMM_V	298	202	Introduction to Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 298-203	COMM_V	298	203	Introduction to Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 298-204	COMM_V	298	204	Introduction to Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 298-205	COMM_V	298	205	Introduction to Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 298-206	COMM_V	298	206	Introduction to Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 298-207	COMM_V	298	207	Introduction to Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. Credit will be granted for only one of COMM 298, COEC 298, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 295, ECON 301. Equivalency: COEC298	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 306-201	COMM_V	306	201	Urban Land Economics	W2	Examines economic factors affecting the urban land market, with an emphasis on determinants of urban land values, the housing market, urban transportation, and land use policies. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 306-202	COMM_V	306	202	Urban Land Economics	W2	Examines economic factors affecting the urban land market, with an emphasis on determinants of urban land values, the housing market, urban transportation, and land use policies. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.

COMM_V 307-101	COMM_V	307	101	Real Estate Investment	W1	Evaluation of investment in real estate assets; proforma analysis, property and asset management, equity securitization, appraisal, and international real estate investment. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301 and one of COMM 297, COMM 298.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 307-102	COMM_V	307	102	Real Estate Investment	W1	Evaluation of investment in real estate assets; proforma analysis, property and asset management, equity securitization, appraisal, and international real estate investment. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301 and one of COMM 297, COMM 298.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 307-103	COMM_V	307	103	Real Estate Investment	W1	Evaluation of investment in real estate assets; proforma analysis, property and asset management, equity securitization, appraisal, and international real estate investment. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301 and one of COMM 297, COMM 298.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 312-101	COMM_V	312	101	Business Ethics Leadership	W1	Skill Development for leading organizations while better managing for values. Recognizing organizational values, and developing concrete plans for better delivering on these values. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 312-201	COMM_V	312	201	Business Ethics Leadership	W2	Skill Development for leading organizations while better managing for values. Recognizing organizational values, and developing concrete plans for better delivering on these values. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 314-101	COMM_V	314	101	Strategies for Responsible Business	W1	Tools to apply sustainable and responsible decision making through individual, organizational, and structural lenses. Topics include diversity and group think, the circular economy, and climate change adaptation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 314-201	COMM_V	314	201	Strategies for Responsible Business	W2	Tools to apply sustainable and responsible decision making through individual, organizational, and structural lenses. Topics include diversity and group think, the circular economy, and climate change adaptation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 320-DD1	COMM_V	320	DD1	Foundations in Accounting I	W1	Preparation of financial statements and use of financial information contained in financial statements to make better decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 9:30 a.m.
COMM_V 320-DD2	COMM_V	320	DD2	Foundations in Accounting I	W2	Preparation of financial statements and use of financial information contained in financial statements to make better decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 9:30 a.m.
COMM_V 320-DD3	COMM_V	320	DD3	Foundations in Accounting I	W2	Preparation of financial statements and use of financial information contained in financial statements to make better decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
COMM_V 320-DD4	COMM_V	320	DD4	Foundations in Accounting I	W1	Preparation of financial statements and use of financial information contained in financial statements to make better decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
COMM_V 321-DD1	COMM_V	321	DD1	Organizational Behaviour	W1	Effects of individual and group behaviour on organizational processes and outcomes. Application of relevant frameworks from the social sciences to particular organizational situations. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	8:00 a.m. - 9:30 a.m.
COMM_V 321-DD2	COMM_V	321	DD2	Organizational Behaviour	W2	Effects of individual and group behaviour on organizational processes and outcomes. Application of relevant frameworks from the social sciences to particular organizational situations. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	8:00 a.m. - 9:30 a.m.
COMM_V 321-DD3	COMM_V	321	DD3	Organizational Behaviour	W2	Effects of individual and group behaviour on organizational processes and outcomes. Application of relevant frameworks from the social sciences to particular organizational situations. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
COMM_V 323-101	COMM_V	323	101	Leading Diversity, Equity and Inclusion in Organizations	W1	Topics in diversity related to identity, group categorization, stereotyping, explicit and implicit bias, microaggressions, and discrimination. Mitigation of institutional inequality and discrimination through inclusive leadership and critical analysis of organizational practices and policies. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 203.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 324-201	COMM_V	324	201	People Analytics	W2	Application of descriptive and inferential statistics to decisions in core Human Resources (HR) areas, including recruitment, selection, compensation, training, and performance management using organizations. HR data and human capital metrics. Machine learning and AI in strategic HR decision making. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 203, COMM 191, COMM 205.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 335-101	COMM_V	335	101	Information Systems Technology and Development	W1	Introduction to information technology related to business use. Design, implementation and application of Information Systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 205, CPSC 210.	In Person Learning	Thu	3:30 p.m. - 6:30 p.m.
COMM_V 335-102	COMM_V	335	102	Information Systems Technology and Development	W1	Introduction to information technology related to business use. Design, implementation and application of Information Systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 205, CPSC 210.	In Person Learning	Fri	12:30 p.m. - 3:30 p.m.
COMM_V 335-201	COMM_V	335	201	Information Systems Technology and Development	W2	Introduction to information technology related to business use. Design, implementation and application of Information Systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 205, CPSC 210.	In Person Learning	Fri	12:30 p.m. - 3:30 p.m.
COMM_V 336-201	COMM_V	336	201	Introduction to Digital Business	W2	Business fundamentals in the digital economy; leveraging digitization and automation; data and analytics; platforms; crowdsourcing; understanding the impact of digital technologies on firms, markets, economies as well as individuals and society. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
COMM_V 336-202	COMM_V	336	202	Introduction to Digital Business	W2	Business fundamentals in the digital economy; leveraging digitization and automation; data and analytics; platforms; crowdsourcing; understanding the impact of digital technologies on firms, markets, economies as well as individuals and society. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Arranged	Arranged
COMM_V 337-101	COMM_V	337	101	Business Programming and Analytics	W1	Introduction to object-oriented computer programming; computational thinking; program design; scripting; documentation techniques; file handling; database access; and web crawling techniques. Students will apply data structures and programming constructs to the development of business analytics and other related applications. Credit will be granted for only one of COMM 337 and CPSC 103. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.

COMM_V 337-102	COMM_V	337	102	Business Programming and Analytics	W1	Introduction to object-oriented computer programming; computational thinking; program design; scripting; documentation techniques; file handling; database access; and web crawling techniques. Students will apply data structures and programming constructs to the development of business analytics and other related applications. Credit will be granted for only one of COMM 337 and CPSC 103. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Arranged	Arranged
COMM_V 337-201	COMM_V	337	201	Business Programming and Analytics	W2	Introduction to object-oriented computer programming; computational thinking; program design; scripting; documentation techniques; file handling; database access; and web crawling techniques. Students will apply data structures and programming constructs to the development of business analytics and other related applications. Credit will be granted for only one of COMM 337 and CPSC 103. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 337-202	COMM_V	337	202	Business Programming and Analytics	W2	Introduction to object-oriented computer programming; computational thinking; program design; scripting; documentation techniques; file handling; database access; and web crawling techniques. Students will apply data structures and programming constructs to the development of business analytics and other related applications. Credit will be granted for only one of COMM 337 and CPSC 103. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 337-203	COMM_V	337	203	Business Programming and Analytics	W2	Introduction to object-oriented computer programming; computational thinking; program design; scripting; documentation techniques; file handling; database access; and web crawling techniques. Students will apply data structures and programming constructs to the development of business analytics and other related applications. Credit will be granted for only one of COMM 337 and CPSC 103. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 338-101	COMM_V	338	101	Management of Cybersecurity	W1	Fundamentals of cybersecurity from managerial perspectives; Cyber risk management and governance; Security architecture and design; Capabilities to protect enterprise assets and respond to cyber incidents. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205 or CPSC 213 or CPEN 212.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
COMM_V 353-101	COMM_V	353	101	Financial Accounting: Intermediate I	W1	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294. Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 353-102	COMM_V	353	102	Financial Accounting: Intermediate I	W1	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294. Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 353-201	COMM_V	353	201	Financial Accounting: Intermediate I	W2	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294. Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 353-202	COMM_V	353	202	Financial Accounting: Intermediate I	W2	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294. Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 353-203	COMM_V	353	203	Financial Accounting: Intermediate I	W2	An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294. Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 354-101	COMM_V	354	101	Cost Accounting	W1	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. The utilization of statistical analysis and linear models is included. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 354-102	COMM_V	354	102	Cost Accounting	W1	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. The utilization of statistical analysis and linear models is included. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 354-103	COMM_V	354	103	Cost Accounting	W1	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. The utilization of statistical analysis and linear models is included. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 354-201	COMM_V	354	201	Cost Accounting	W2	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. The utilization of statistical analysis and linear models is included. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 354-202	COMM_V	354	202	Cost Accounting	W2	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. The utilization of statistical analysis and linear models is included. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 354-203	COMM_V	354	203	Cost Accounting	W2	The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. The utilization of statistical analysis and linear models is included. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 293, COMM 294 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291.	In Person Learning	Arranged	Arranged
COMM_V 355-101	COMM_V	355	101	Income Taxation	W1	A study of income tax from the standpoint of the individual and of business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM293, COMM457	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 355-102	COMM_V	355	102	Income Taxation	W1	A study of income tax from the standpoint of the individual and of business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM293, COMM457	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 355-201	COMM_V	355	201	Income Taxation	W2	A study of income tax from the standpoint of the individual and of business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM293, COMM457	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.

COMM_V 355-202	COMM_V	355	202	Income Taxation	W2	A study of income tax from the standpoint of the individual and of business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM293, COMM457	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 362-101	COMM_V	362	101	Consumer Behaviour	W1	The use of consumer research and theory in marketing and policy decisions. Psychological, sociological and economic theory and research relevant to consumer behaviour are considered. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 362-102	COMM_V	362	102	Consumer Behaviour	W1	The use of consumer research and theory in marketing and policy decisions. Psychological, sociological and economic theory and research relevant to consumer behaviour are considered. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 362-103	COMM_V	362	103	Consumer Behaviour	W1	The use of consumer research and theory in marketing and policy decisions. Psychological, sociological and economic theory and research relevant to consumer behaviour are considered. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 362-201	COMM_V	362	201	Consumer Behaviour	W2	The use of consumer research and theory in marketing and policy decisions. Psychological, sociological and economic theory and research relevant to consumer behaviour are considered. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 362-202	COMM_V	362	202	Consumer Behaviour	W2	The use of consumer research and theory in marketing and policy decisions. Psychological, sociological and economic theory and research relevant to consumer behaviour are considered. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 362-203	COMM_V	362	203	Consumer Behaviour	W2	The use of consumer research and theory in marketing and policy decisions. Psychological, sociological and economic theory and research relevant to consumer behaviour are considered. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 363-101	COMM_V	363	101	Marketing Analysis	W1	Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive response. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 363-102	COMM_V	363	102	Marketing Analysis	W1	Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive response. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 363-103	COMM_V	363	103	Marketing Analysis	W1	Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive response. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 363-201	COMM_V	363	201	Marketing Analysis	W2	Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive response. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 363-202	COMM_V	363	202	Marketing Analysis	W2	Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive response. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 363-203	COMM_V	363	203	Marketing Analysis	W2	Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive response. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 365-101	COMM_V	365	101	Market Research	W1	The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 365-102	COMM_V	365	102	Market Research	W1	The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 365-103	COMM_V	365	103	Market Research	W1	The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 365-201	COMM_V	365	201	Market Research	W2	The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 365-202	COMM_V	365	202	Market Research	W2	The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.

COMM_V 365-203	COMM_V	365	203	Market Research	W2	The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
COMM_V 370-101	COMM_V	370	101	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 370-102	COMM_V	370	102	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 370-103	COMM_V	370	103	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 370-104	COMM_V	370	104	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 370-105	COMM_V	370	105	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 370-106	COMM_V	370	106	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 370-107	COMM_V	370	107	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 370-108	COMM_V	370	108	Corporate Finance	W1	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 370-201	COMM_V	370	201	Corporate Finance	W2	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 370-202	COMM_V	370	202	Corporate Finance	W2	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 370-203	COMM_V	370	203	Corporate Finance	W2	Examination of corporate enterprise decisions including capital budgeting; capital structure choice, and financial policies, tools, and valuation. Credit will be granted for only one of COMM 370 or COEC 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC370	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 371-101	COMM_V	371	101	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC371	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 371-102	COMM_V	371	102	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC371	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 371-103	COMM_V	371	103	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC371	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 371-104	COMM_V	371	104	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC371	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 371-105	COMM_V	371	105	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC371	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 371-106	COMM_V	371	106	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC371	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 371-107	COMM_V	371	107	Investment Theory	W1	Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC371	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 374-201	COMM_V	374	201	Applied Financial Markets	W2	Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 374-202	COMM_V	374	202	Applied Financial Markets	W2	Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

COMM_V 374-203	COMM_V	374	203	Applied Financial Markets	W2	Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 374-204	COMM_V	374	204	Applied Financial Markets	W2	Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 374-205	COMM_V	374	205	Applied Financial Markets	W2	Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 374-206	COMM_V	374	206	Applied Financial Markets	W2	Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 374-207	COMM_V	374	207	Applied Financial Markets	W2	Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 375-101	COMM_V	375	101	Behavioural Finance	W1	The psychological processes that give rise to decision-making biases in investment settings and counter-strategies to minimize their negative effects on financial decisions. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 375-201	COMM_V	375	201	Behavioural Finance	W2	The psychological processes that give rise to decision-making biases in investment settings and counter-strategies to minimize their negative effects on financial decisions. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 376-101	COMM_V	376	101	Financial Institutions I	W1	The roles and operation of financial institutions, including banks, and the financial systems and markets in which they function, including those involving payments processes and the creation and use of fiat and digital money including cryptocurrencies. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 376-201	COMM_V	376	201	Financial Institutions I	W2	The roles and operation of financial institutions, including banks, and the financial systems and markets in which they function, including those involving payments processes and the creation and use of fiat and digital money including cryptocurrencies. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 377-101	COMM_V	377	101	International Financial Markets and Institutions	W1	Structure, nature and institutions of foreign exchange markets, including spot, forward, futures, options, and offshore currency markets. Factors affecting exchange rates are also discussed. Credit will be granted for only one of ECON 456, COMM 377, or COEC 377. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. Equivalency: COEC377	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 377-201	COMM_V	377	201	International Financial Markets and Institutions	W2	Structure, nature and institutions of foreign exchange markets, including spot, forward, futures, options, and offshore currency markets. Factors affecting exchange rates are also discussed. Credit will be granted for only one of ECON 456, COMM 377, or COEC 377. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. Equivalency: COEC377	In Person Learning	Arranged	Arranged
COMM_V 380-601	COMM_V	380	601	Co-operative Work Placement I	W1	Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the winter term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. Option-specific prerequisites apply. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 380-602	COMM_V	380	602	Co-operative Work Placement I	W2	Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the winter term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. Option-specific prerequisites apply. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 381-601	COMM_V	381	601	Co-operative Work Placement II	W1	Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the summer term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM380]	In Person Learning	Arranged	Arranged
COMM_V 381-602	COMM_V	381	602	Co-operative Work Placement II	W2	Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the summer term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM380]	In Person Learning	Arranged	Arranged
COMM_V 382-201	COMM_V	382	201	Economics of Entrepreneurship and Innovation	W2	Fundamental economic issues faced by entrepreneurs who want to commercialize innovations within start-ups and established firms. Credit will be granted for only one of COMM 382 and COMR 382. This course is not eligible for Credit/D/Fail grading. Equivalency: COMR382	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 382-202	COMM_V	382	202	Economics of Entrepreneurship and Innovation	W2	Fundamental economic issues faced by entrepreneurs who want to commercialize innovations within start-ups and established firms. Credit will be granted for only one of COMM 382 and COMR 382. This course is not eligible for Credit/D/Fail grading. Equivalency: COMR382	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 386-C_201	COMM_V	386	C	C_201	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
COMM_V 386-I_201	COMM_V	386	I	I_201	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 386-L_201	COMM_V	386	L	L_201	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 386-M_101	COMM_V	386	M	M_101	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.

COMM_V 386-P_001	COMM_V	386	P	P_001	Topics in Business III	W1-2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Fri (Alternate weeks)	12:30 p.m. - 2:00 p.m.
COMM_V 386-T_101	COMM_V	386	T	T_101	Topics in Business III	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 386-T_201	COMM_V	386	T	T_201	Topics in Business III	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Arranged	Arranged
COMM_V 386-U_101	COMM_V	386	U	U_101	Topics in Business III	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR386	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 387-101	COMM_V	387		101	Entrepreneurial Finance and Private Equity	W1	Financial issues encountered by entrepreneurs and those active on the investing side of entrepreneurship, such as working for banks, venture capital firms, or corporate venture organizations, or anyone interacting with entrepreneurs and private equity investors. Credit will be granted for only one of COMM 387, COEC 387, or COMR 387. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC387, COMR387	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 387-102	COMM_V	387		102	Entrepreneurial Finance and Private Equity	W1	Financial issues encountered by entrepreneurs and those active on the investing side of entrepreneurship, such as working for banks, venture capital firms, or corporate venture organizations, or anyone interacting with entrepreneurs and private equity investors. Credit will be granted for only one of COMM 387, COEC 387, or COMR 387. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC387, COMR387	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 388-101	COMM_V	388		101	Design Methods for Business Innovation	W1	Studio-based experience in thinking strategies and design processes applied to business innovation in the private, public, and social sectors. Emphasis on problem solving, co-creation, and innovation for external clients in a collaborative environment. Credit will be granted for only one of COMM 388 and COMR 388. Equivalency: COMR388	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
COMM_V 388-201	COMM_V	388		201	Design Methods for Business Innovation	W2	Studio-based experience in thinking strategies and design processes applied to business innovation in the private, public, and social sectors. Emphasis on problem solving, co-creation, and innovation for external clients in a collaborative environment. Credit will be granted for only one of COMM 388 and COMR 388. Equivalency: COMR388	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
COMM_V 389-201	COMM_V	389		201	Creativity in Business	W2	The role and importance of creativity in developing successful business solutions. Credit will be granted for only one of COMM 389 and COMR 389. This course is not eligible for Credit/D/Fail grading. Equivalency: COMR389	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 393-101	COMM_V	393		101	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 393-102	COMM_V	393		102	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 393-103	COMM_V	393		103	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 393-104	COMM_V	393		104	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 393-105	COMM_V	393		105	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 393-106	COMM_V	393		106	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 393-107	COMM_V	393		107	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 393-108	COMM_V	393		108	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 393-109	COMM_V	393		109	Commercial Law	W1	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 393-201	COMM_V	393		201	Commercial Law	W2	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 393-202	COMM_V	393		202	Commercial Law	W2	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 393-203	COMM_V	393		203	Commercial Law	W2	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 393-204	COMM_V	393		204	Commercial Law	W2	Introduction to the law of contracts, with particular reference to contracts for sale of goods and related law of personal property; principles of agency, partnerships and company law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.



COMM_V 394-204	COMM_V	394	204	Environment, Society, and Government	W2	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of COEC 394 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COEC394	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 394-205	COMM_V	394	205	Environment, Society, and Government	W2	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of COEC 394 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COEC394	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 394-206	COMM_V	394	206	Environment, Society, and Government	W2	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of COEC 394 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COEC394	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 394-207	COMM_V	394	207	Environment, Society, and Government	W2	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of COEC 394 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COEC394	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 394-208	COMM_V	394	208	Environment, Society, and Government	W2	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of COEC 394 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COEC394	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 394-209	COMM_V	394	209	Environment, Society, and Government	W2	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of COEC 394 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COEC394	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 395-101	COMM_V	395	101	Business Communications	W1	Understanding non-written communications in day-to-day business. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 395-102	COMM_V	395	102	Business Communications	W1	Understanding non-written communications in day-to-day business. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 395-103	COMM_V	395	103	Business Communications	W1	Understanding non-written communications in day-to-day business. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
COMM_V 395-201	COMM_V	395	201	Business Communications	W2	Understanding non-written communications in day-to-day business. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 395-202	COMM_V	395	202	Business Communications	W2	Understanding non-written communications in day-to-day business. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 395-203	COMM_V	395	203	Business Communications	W2	Understanding non-written communications in day-to-day business. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 396-101	COMM_V	396	101	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	In Person Learning	Mon Fri	12:30 p.m. - 2:00 p.m.
COMM_V 396-102	COMM_V	396	102	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	In Person Learning	Mon Fri	2:00 p.m. - 3:30 p.m.
COMM_V 396-103	COMM_V	396	103	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	In Person Learning	Mon Fri	3:30 p.m. - 5:00 p.m.
COMM_V 396-104	COMM_V	396	104	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 396-105	COMM_V	396	105	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 396-106	COMM_V	396	106	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 396-107	COMM_V	396	107	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 396-108	COMM_V	396	108	Business Communications II	W1	An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.



COMM_V 405-102	COMM_V	405	102	Real Estate Finance	W1	The role of mortgage markets, mathematical analysis of return and valuation issue and methods of dealing with lender and borrower risk exposure. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 297, COMM 298.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 407-201	COMM_V	407	201	Real Estate Economics	W2	The economics of real estate markets. Topics include real estate cycles and bubbles, search models and vacancy, the relationship between real estate and the economy, housing demand, and models of housing supply. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 407-202	COMM_V	407	202	Real Estate Economics	W2	The economics of real estate markets. Topics include real estate cycles and bubbles, search models and vacancy, the relationship between real estate and the economy, housing demand, and models of housing supply. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 408-201	COMM_V	408	201	Real Estate Development	W2	The development process from theories of development, market analysis, site selection, project design, land use regulation and financial analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 307, COMM 405.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
COMM_V 410-001	COMM_V	410	001	Dual Degree Year 4 at University of Hong Kong	W1-2	This student is registered in the Dual Degree Bachelor of Commerce program with the University of British Columbia (UBC) and the University of Hong Kong (HKU). For complete details please see the University of Hong Kong academic record.	In Person Learning	Arranged	Arranged
COMM_V 412-101	COMM_V	412	101	Negotiation	W1	Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 412-102	COMM_V	412	102	Negotiation	W1	Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 412-201	COMM_V	412	201	Negotiation	W2	Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
COMM_V 412-202	COMM_V	412	202	Negotiation	W2	Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
COMM_V 414-101	COMM_V	414	101	Data Visualization and Business Analytics	W1	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 414-102	COMM_V	414	102	Data Visualization and Business Analytics	W1	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 414-201	COMM_V	414	201	Data Visualization and Business Analytics	W2	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 414-202	COMM_V	414	202	Data Visualization and Business Analytics	W2	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 414-203	COMM_V	414	203	Data Visualization and Business Analytics	W2	Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 415-101	COMM_V	415	101	Quantitative Policy Analysis	W1	Quantitative evaluation of public policies using statistical evaluation methods, cost benefit, and effectiveness analyses. Public policies affecting service provision and infrastructure investment in air, rail, marine, public transit, and pipelines evaluated on pricing, operating costs, productivity, safety, security, and the environment. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 415-201	COMM_V	415	201	Quantitative Policy Analysis	W2	Quantitative evaluation of public policies using statistical evaluation methods, cost benefit, and effectiveness analyses. Public policies affecting service provision and infrastructure investment in air, rail, marine, public transit, and pipelines evaluated on pricing, operating costs, productivity, safety, security, and the environment. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Arranged	Arranged
COMM_V 420-DD1	COMM_V	420	DD1	Marketing	W1	Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:30 p.m. - 4:00 p.m.
COMM_V 420-DD2	COMM_V	420	DD2	Marketing	W2	Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
COMM_V 420-DD3	COMM_V	420	DD3	Marketing	W1	Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:00 p.m. - 5:30 p.m.
COMM_V 420-DD4	COMM_V	420	DD4	Marketing	W2	Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
COMM_V 421-DD1	COMM_V	421	DD1	Introductory Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.

COMM_V 421-DD2	COMM_V	421	DD2	Introductory Finance	W2	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:30 p.m. - 5:00 p.m.
COMM_V 421-DD3	COMM_V	421	DD3	Introductory Finance	W1	Introduces the basic principles of financial valuation, including the time-value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 5:30 p.m.
COMM_V 431-201	COMM_V	431	201	Law of Business Organizations and Corporate Governance	W2	Statutory provisions and case law that regulate the creation and governance of sole proprietorships, partnerships, corporations, joint ventures, and franchises in British Columbia. Fiduciary duties of partners, directors and officers are also examined. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM393]	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
COMM_V 434-201	COMM_V	434	201	Land Law	W2	Legal principles and concepts relating to real estate and land development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM393]	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 434-202	COMM_V	434	202	Land Law	W2	Legal principles and concepts relating to real estate and land development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM393]	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 435-201	COMM_V	435	201	CIO Strategies	W2	Common issues faced by Chief Information Officers (CIO): Cost and value of information technology (IT), IT priorities, IT and the Board of Directors, Business-IT alignment, IT governance, IT talent management, standardization vs. innovation, project and vendor management/partnering, and managing security and risks. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
COMM_V 436-101	COMM_V	436	101	Information Systems Analysis and Design	W1	The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 335, CPSC 310.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 436-102	COMM_V	436	102	Information Systems Analysis and Design	W1	The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 335, CPSC 310.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 436-103	COMM_V	436	103	Information Systems Analysis and Design	W1	The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 335, CPSC 310.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 436-201	COMM_V	436	201	Information Systems Analysis and Design	W2	The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 335, CPSC 310.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 437-101	COMM_V	437	101	Database Technology	W1	Theory and technology of database management from an applications perspective; database design; database administration. Credit will be granted for only one of COMM 437, COEC 437, CPSC 304 or CPSC 368. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 335.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 437-201	COMM_V	437	201	Database Technology	W2	Theory and technology of database management from an applications perspective; database design; database administration. Credit will be granted for only one of COMM 437, COEC 437, CPSC 304 or CPSC 368. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 335.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 437-202	COMM_V	437	202	Database Technology	W2	Theory and technology of database management from an applications perspective; database design; database administration. Credit will be granted for only one of COMM 437, COEC 437, CPSC 304 or CPSC 368. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 335.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 438-101	COMM_V	438	101	Management of Information Systems	W1	Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 438-102	COMM_V	438	102	Management of Information Systems	W1	Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 438-201	COMM_V	438	201	Management of Information Systems	W2	Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 438-202	COMM_V	438	202	Management of Information Systems	W2	Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 438-203	COMM_V	438	203	Management of Information Systems	W2	Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 439-101	COMM_V	439	101	Business Telecommunications	W1	Basic data communications concepts and technology; local area, wide area, and enterprise networks; the Internet; wireless networking; network development life cycle; network security and management. Credit will be granted for only one of COMM 439 or CPSC 317, and COMM 439 or CPSC 417. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM335]	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 439-201	COMM_V	439	201	Business Telecommunications	W2	Basic data communications concepts and technology; local area, wide area, and enterprise networks; the Internet; wireless networking; network development life cycle; network security and management. Credit will be granted for only one of COMM 439 or CPSC 317, and COMM 439 or CPSC 417. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM335]	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMM_V 439-202	COMM_V	439	202	Business Telecommunications	W2	Basic data communications concepts and technology; local area, wide area, and enterprise networks; the Internet; wireless networking; network development life cycle; network security and management. Credit will be granted for only one of COMM 439 or CPSC 317, and COMM 439 or CPSC 417. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM335]	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.

COMM_V 443-101	COMM_V	443	101	Service Operations	W1	This primarily case-based course will cover service operations in general (50%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 443-102	COMM_V	443	102	Service Operations	W1	This primarily case-based course will cover service operations in general (50%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 443-103	COMM_V	443	103	Service Operations	W1	This primarily case-based course will cover service operations in general (50%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Arranged	Arranged
COMM_V 443-201	COMM_V	443	201	Service Operations	W2	This primarily case-based course will cover service operations in general (50%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Arranged	Arranged
COMM_V 443-202	COMM_V	443	202	Service Operations	W2	This primarily case-based course will cover service operations in general (50%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Arranged	Arranged
COMM_V 444-101	COMM_V	444	101	Air Transportation	W1	An integrative treatment of air transport management including: demand analysis, sales and marketing, globalization trends, aircraft selection and fleet planning; airport economics and management. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 444-201	COMM_V	444	201	Air Transportation	W2	An integrative treatment of air transport management including: demand analysis, sales and marketing, globalization trends, aircraft selection and fleet planning; airport economics and management. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 445-201	COMM_V	445	201	Maritime and International Transportation	W2	The characteristics of shipping services and the role of shipping services in the design and management of international logistics systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 447-101	COMM_V	447	101	Applied Project Management	W1	Project management methodology based on the practices defined by the Project Management Institute, including planning, execution, monitoring, control, and completion. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 301.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
COMM_V 449-201	COMM_V	449	201	Supply-Chain Management	W2	Integrated management of production and logistics systems; management of inter-organizational relationships in the supply chain, including vendor selection, bidding and negotiation processes, partnering and performance measurement. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 449-202	COMM_V	449	202	Supply-Chain Management	W2	Integrated management of production and logistics systems; management of inter-organizational relationships in the supply chain, including vendor selection, bidding and negotiation processes, partnering and performance measurement. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 449-203	COMM_V	449	203	Supply-Chain Management	W2	Integrated management of production and logistics systems; management of inter-organizational relationships in the supply chain, including vendor selection, bidding and negotiation processes, partnering and performance measurement. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 450-101	COMM_V	450	101	Financial Accounting - Intermediate II	W1	Intermediate II. Continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353]	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 450-102	COMM_V	450	102	Financial Accounting - Intermediate II	W1	Intermediate II. Continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353]	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 450-103	COMM_V	450	103	Financial Accounting - Intermediate II	W1	Intermediate II. Continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353]	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 450-201	COMM_V	450	201	Financial Accounting - Intermediate II	W2	Intermediate II. Continuation of the examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353]	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 452-101	COMM_V	452	101	Taxes and Decision Making	W1	Analysis of business and financial decisions in the presence of taxes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 452-201	COMM_V	452	201	Taxes and Decision Making	W2	Analysis of business and financial decisions in the presence of taxes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 453-101	COMM_V	453	101	Financial Accounting-Advanced	W1	An examination of advanced financial accounting. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353, COMM450]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 453-201	COMM_V	453	201	Financial Accounting-Advanced	W2	An examination of advanced financial accounting. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353, COMM450]	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 453-202	COMM_V	453	202	Financial Accounting-Advanced	W2	An examination of advanced financial accounting. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353, COMM450]	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 453-203	COMM_V	453	203	Financial Accounting-Advanced	W2	An examination of advanced financial accounting. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM353, COMM450]	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 454-101	COMM_V	454	101	Accounting for Management Control and Incentives	W1	Design of accounting systems for facilitating and influencing management decisions, with emphasis on performance evaluation in organizations. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM294]	In Person Learning	Arranged	Arranged

COMM_V 454-201	COMM_V	454	201	Accounting for Management Control and Incentives	W2	Design of accounting systems for facilitating and influencing management decisions, with emphasis on performance evaluation in organizations. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM294]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 454-202	COMM_V	454	202	Accounting for Management Control and Incentives	W2	Design of accounting systems for facilitating and influencing management decisions, with emphasis on performance evaluation in organizations. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM294]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 455-101	COMM_V	455	101	Principles of Auditing	W1	Principles of internal control, audit evidence, sampling and testing; audit reports; standards; responsibilities of the external auditor. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 353. Corequisite: COMM 450.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 455-102	COMM_V	455	102	Principles of Auditing	W1	Principles of internal control, audit evidence, sampling and testing; audit reports; standards; responsibilities of the external auditor. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 353. Corequisite: COMM 450.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 455-201	COMM_V	455	201	Principles of Auditing	W2	Principles of internal control, audit evidence, sampling and testing; audit reports; standards; responsibilities of the external auditor. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 353. Corequisite: COMM 450.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 455-202	COMM_V	455	202	Principles of Auditing	W2	Principles of internal control, audit evidence, sampling and testing; audit reports; standards; responsibilities of the external auditor. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 353. Corequisite: COMM 450.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 459-201	COMM_V	459	201	Financial Statement Analysis	W2	An examination of financial statement information from the perspective of decision makers external to the firm, e.g., investors and financial institutions. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 293 and one of COMM 297, COMM 298 and one of COMM 370, COMM 397.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 459-202	COMM_V	459	202	Financial Statement Analysis	W2	An examination of financial statement information from the perspective of decision makers external to the firm, e.g., investors and financial institutions. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 293 and one of COMM 297, COMM 298 and one of COMM 370, COMM 397.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 460-101	COMM_V	460	101	Social and Nonprofit Marketing	W1	Examines the role, use, and application of marketing in government agencies and nonprofit institutions. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 461-101	COMM_V	461	101	Business Development	W1	Principles and practice of personal selling and leadership of teams: strategy, tactics, and implementation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 462-201	COMM_V	462	201	Integrated Marketing Communication	W2	Marketing communication campaign strategy, conceptual framework, and practical application for integrated marketing communications, including advertising. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM362	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 463-101	COMM_V	463	101	Public Relations	W1	Managing an organization's strategic communications and relationships with diverse publics to handle issues, strengthen reputation, fulfill social responsibilities, and build trust. Topics include stakeholder engagement, issues management, crisis communications, and events and sponsorship. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 464-101	COMM_V	464	101	Digital Marketing	W1	Investigation of Internet-based marketing, emphasizing customer-focused perspectives, competitive situations and analysis of the effectiveness of business websites using marketing principles and practices. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 464-201	COMM_V	464	201	Digital Marketing	W2	Investigation of Internet-based marketing, emphasizing customer-focused perspectives, competitive situations and analysis of the effectiveness of business websites using marketing principles and practices. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 464-202	COMM_V	464	202	Digital Marketing	W2	Investigation of Internet-based marketing, emphasizing customer-focused perspectives, competitive situations and analysis of the effectiveness of business websites using marketing principles and practices. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
COMM_V 466-001	COMM_V	466	001	New Venture Design	W1-2	Teams comprising students in COMM 466 and APSC 486 propose a new product, produce a viable prototype, and develop a business plan for the marketplace. Credit will be granted for only one of COMM 466, COMM 497, COEC 497, COMR 497, APSC 486, or APSC 496E. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
COMM_V 466-002	COMM_V	466	002	New Venture Design	W1-2	Teams comprising students in COMM 466 and APSC 486 propose a new product, produce a viable prototype, and develop a business plan for the marketplace. Credit will be granted for only one of COMM 466, COMM 497, COEC 497, COMR 497, APSC 486, or APSC 496E. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
COMM_V 466-201	COMM_V	466	201	New Venture Design	W2	Teams comprising students in COMM 466 and APSC 486 propose a new product, produce a viable prototype, and develop a business plan for the marketplace. Credit will be granted for only one of COMM 466, COMM 497, COEC 497, COMR 497, APSC 486, or APSC 496E. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 467-101	COMM_V	467	101	Brand Management	W1	Issues and challenges commonly faced by brand managers, including: assessing brand meaning, evaluating brand health, assessing a brand's leverage potential, evaluating brand extensions, managing brands through a crisis, and assessing brand value. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 467-201	COMM_V	467	201	Brand Management	W2	Issues and challenges commonly faced by brand managers, including: assessing brand meaning, evaluating brand health, assessing a brand's leverage potential, evaluating brand extensions, managing brands through a crisis, and assessing brand value. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 468-101	COMM_V	468	101	Marketing Applications	W1	Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 468-102	COMM_V	468	102	Marketing Applications	W1	Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

COMM_V 468-201	COMM_V	468	201	Marketing Applications	W2	Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 468-202	COMM_V	468	202	Marketing Applications	W2	Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 468-203	COMM_V	468	203	Marketing Applications	W2	Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 468-204	COMM_V	468	204	Marketing Applications	W2	Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 470-201	COMM_V	470	201	Venture Capital	W2	Theory and evidence concerning venture capital markets. Contracting, fundraising, and financing choice covered in depth, with the aim of catering to students looking to raise money for entrepreneurial ventures or to invest in entrepreneurial ventures. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 370, COMM 387.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 470-202	COMM_V	470	202	Venture Capital	W2	Theory and evidence concerning venture capital markets. Contracting, fundraising, and financing choice covered in depth, with the aim of catering to students looking to raise money for entrepreneurial ventures or to invest in entrepreneurial ventures. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 370, COMM 387.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 471-101	COMM_V	471	101	Mergers and Acquisitions	W1	Mergers and acquisitions as a focal point in making important corporate decisions deduced from careful study of relevant business cases. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 370.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 471-102	COMM_V	471	102	Mergers and Acquisitions	W1	Mergers and acquisitions as a focal point in making important corporate decisions deduced from careful study of relevant business cases. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 370.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 474-101	COMM_V	474	101	Fixed Income Markets and Management	W1	Fixed income instruments and derivatives. Risk profiles and their use in establishing fixed income investment portfolios. Performance attribution techniques. This course is not eligible for Credit/D/Fail grading. Corequisite: COMM 374.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 474-201	COMM_V	474	201	Fixed Income Markets and Management	W2	Fixed income instruments and derivatives. Risk profiles and their use in establishing fixed income investment portfolios. Performance attribution techniques. This course is not eligible for Credit/D/Fail grading. Corequisite: COMM 374.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 475-101	COMM_V	475	101	Investment Policy	W1	The management of security portfolios for individual and institutional investors; relation of investment policy to money markets and business fluctuations. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 371.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 475-201	COMM_V	475	201	Investment Policy	W2	The management of security portfolios for individual and institutional investors; relation of investment policy to money markets and business fluctuations. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 371.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 475-202	COMM_V	475	202	Investment Policy	W2	The management of security portfolios for individual and institutional investors; relation of investment policy to money markets and business fluctuations. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 371.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMM_V 476-201	COMM_V	476	201	Advanced Topics in Investment Management	W2	Applications of contemporary research, innovations, and technologies in the allocation of capital across asset classes, portfolios of assets, and individual securities. Empirical analyses of current market data using software and quantitative tools to implement potential investment and trading strategies. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 477-201	COMM_V	477	201	Risk Management and Financial Engineering	W2	Principles of financial engineering and risk management. Use of derivatives in risk management. Valuation and hedging models for contingent claims. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 374.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 479-101	COMM_V	479	101	Advanced Topics on Corporate Finance	W1	Corporate Finance is the process by which corporations raise money, allocate funds to real assets, and manage the flow of funds back to the investors. Topics will vary according to interests of students, instructors, and developments in the field. This course is not eligible for Credit/D/Fail grading. Corequisite: All of COMM 370, COMM 371.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 480-601	COMM_V	480	601	Co-operative Work Placement III	W1	Approved and supervised work experience for a minimum of 35 months. Normally taken during the summer term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM381]	In Person Learning	Arranged	Arranged
COMM_V 480-602	COMM_V	480	602	Co-operative Work Placement III	W2	Approved and supervised work experience for a minimum of 35 months. Normally taken during the summer term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM381]	In Person Learning	Arranged	Arranged
COMM_V 481-601	COMM_V	481	601	Co-operative Work Placement IV	W1	Approved and supervised work experience for a minimum of 35 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM480]	In Person Learning	Arranged	Arranged
COMM_V 481-602	COMM_V	481	602	Co-operative Work Placement IV	W2	Approved and supervised work experience for a minimum of 35 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM480]	In Person Learning	Arranged	Arranged
COMM_V 482-201	COMM_V	482	201	New Product Development	W2	How new products are developed and the factors that influence success and failure throughout the various stages of development. This course is not eligible for Credit/D/Fail grading. Equivalency: COMR 482.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

COMM_V 482-202	COMM_V	482		202	New Product Development	W2	How new products are developed and the factors that influence success and failure throughout the various stages of development. This course is not eligible for Credit/D/Fail grading. Equivalency: COMR 482.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 483-201	COMM_V	483		201	Leadership and General Management	W2	Integration and application of business knowledge to make business decisions across disciplines; development of personal leadership ability and style. Case-based with guest speakers. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sun Sat	8:00 a.m. - 9:00 p.m.
COMM_V 484-201	COMM_V	484		201	Sustainability Marketing	W2	Role of marketing in creating social value. Integration of marketing fundamentals with core social, environmental, and economic principles of sustainability. Analysis of current sustainability trends. Development of strategic and practical marketing recommendations for for-profit enterprises. Potential and pitfalls of sustainability marketing. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMM_V 485-101	COMM_V	485		101	Social Entrepreneurship	W1	An applied course that examines the innovative, growing, and rapidly evolving field of social entrepreneurship, which tackles social and environmental challenges through business perspectives and methods. Credit will be granted for only one of COMM 485 or COMR 485. This course is not eligible for Credit/D/Fail grading. Equivalency: COMR 485	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 486-A_201	COMM_V	486	A	A_201	Special Topics in Business	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 486-E_101	COMM_V	486	E	E_101	Special Topics in Business	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 486-E_201	COMM_V	486	E	E_201	Special Topics in Business	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Arranged	Arranged
COMM_V 486-E_202	COMM_V	486	E	E_202	Special Topics in Business	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 486-H_201	COMM_V	486	H	H_201	Special Topics in Business	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Arranged	Arranged
COMM_V 486-J_101	COMM_V	486	J	J_101	Special Topics in Business	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 486-K_201	COMM_V	486	K	K_201	Special Topics in Business	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
COMM_V 486-L_001	COMM_V	486	L	L_001	Special Topics in Business	W1-2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Arranged	Arranged
COMM_V 486-O_101	COMM_V	486	O	O_101	Special Topics in Business	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
COMM_V 486-O_201	COMM_V	486	O	O_201	Special Topics in Business	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Fri	9:00 a.m. - 3:00 p.m.
COMM_V 486-P_001	COMM_V	486	P	P_001	Special Topics in Business	W1-2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Fri (Alternate weeks)	12:30 p.m. - 2:00 p.m.
COMM_V 486-T_101	COMM_V	486	T	T_101	Special Topics in Business	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 486-T_102	COMM_V	486	T	T_102	Special Topics in Business	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 486-Y_101	COMM_V	486	Y	Y_101	Special Topics in Business	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486	In Person Learning	Arranged	Arranged
COMM_V 489-201	COMM_V	489		201	Applied Methods in Technology Start-ups at CDL	W2	Students work with the Creative Destruction Lab team to help start-ups that are focused on science and emerging technology. Students support real companies with market analysis, customer development, financial analysis, and will see how investors make decisions. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
COMM_V 490-A_101	COMM_V	490	A	A_101	Directed Studies in Commerce	W1	An investigation and report on a topic to be agreed upon by a member of the faculty and a senior student. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 490-A_102	COMM_V	490	A	A_102	Directed Studies in Commerce	W1-2	An investigation and report on a topic to be agreed upon by a member of the faculty and a senior student. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 490-A_201	COMM_V	490	A	A_201	Directed Studies in Commerce	W2	An investigation and report on a topic to be agreed upon by a member of the faculty and a senior student. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

COMM_V 490-C_101	COMM_V	490	C	C_101	Directed Studies in Commerce	W1	An investigation and report on a topic to be agreed upon by a member of the faculty and a senior student. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 491-101	COMM_V	491		101	Strategic Management	W1	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 491-102	COMM_V	491		102	Strategic Management	W1	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 491-103	COMM_V	491		103	Strategic Management	W1	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMM_V 491-104	COMM_V	491		104	Strategic Management	W1	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMM_V 491-105	COMM_V	491		105	Strategic Management	W1	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 491-106	COMM_V	491		106	Strategic Management	W1	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 491-201	COMM_V	491		201	Strategic Management	W2	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
COMM_V 491-202	COMM_V	491		202	Strategic Management	W2	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMM_V 491-203	COMM_V	491		203	Strategic Management	W2	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
COMM_V 491-204	COMM_V	491		204	Strategic Management	W2	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMM_V 491-205	COMM_V	491		205	Strategic Management	W2	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 491-206	COMM_V	491		206	Strategic Management	W2	Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 497-101	COMM_V	497		101	New Enterprise Development	W1	The particular problems and experiences encountered in starting, developing and managing new enterprises. The course includes lectures, guest speakers, and case studies. Credit will be granted for only one of COMM 497, COMM 466, COEC 497, COMR 497, APSC 486, or APSC 496E. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC497, COMR497	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 497-201	COMM_V	497		201	New Enterprise Development	W2	The particular problems and experiences encountered in starting, developing and managing new enterprises. The course includes lectures, guest speakers, and case studies. Credit will be granted for only one of COMM 497, COMM 466, COEC 497, COMR 497, APSC 486, or APSC 496E. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC497, COMR497	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.

COMM_V 498-101	COMM_V	498	101	International Business Management	W1	Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC498	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
COMM_V 498-102	COMM_V	498	102	International Business Management	W1	Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC498	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
COMM_V 498-201	COMM_V	498	201	International Business Management	W2	Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC498	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.	
COMM_V 498-202	COMM_V	498	202	International Business Management	W2	Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC498	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.	
COMM_V 498-203	COMM_V	498	203	International Business Management	W2	Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC498	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
COMM_V 525-001	COMM_V	525	001	Introduction to Behavioural Research Methods for Business	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
COMM_V 544-001	COMM_V	544	001	Seminar in Transportation Economics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.	
COMM_V 547-A_001	COMM_V	547	A	A_001	Major Essay/Industry Project	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 547-A_OR1	COMM_V	547	A	A_OR1	Major Essay/Industry Project	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 547-B_610	COMM_V	547	B	B_610	Major Essay/Industry Project	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 548-E_001	COMM_V	548	E	E_001	Directed Study in Business Administration	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 549-A_001	COMM_V	549	A	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
COMM_V 549-A_002	COMM_V	549	A	A_002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
COMM_V 549-A_003	COMM_V	549	A	A_003	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
COMM_V 549-B_001	COMM_V	549	B	B_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
COMM_V 549-B_002	COMM_V	549	B	B_002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
COMM_V 590-A_001	COMM_V	590	A	A_001	Topics in Business Administration	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMM_V 590-A_003	COMM_V	590	A	A_003	Topics in Business Administration	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
COMM_V 590-B_004	COMM_V	590	B	B_004	Topics in Business Administration	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
COMM_V 597-001	COMM_V	597	001	Environmental Management	W2	Credit will be granted for only one of COMM 487 or COMM 597. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	

COMM_V 601-001	COMM_V	601	001	Seminar in Research Methodology	W1	Credit will be granted for only one of COMM 601 or COMM 693. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Thu Fri	1:00 p.m. - 4:00 p.m.
COMM_V 612-001	COMM_V	612	001	Advanced Topics in Optimization	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
COMM_V 616-001	COMM_V	616	001	Optimization Theory and Applications	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 1:30 p.m.
COMM_V 618-001	COMM_V	618	001	Discrete Optimization II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMM_V 618-002	COMM_V	618	002	Discrete Optimization II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	4:00 p.m. - 7:00 p.m.
COMM_V 621-001	COMM_V	621	001	Seminar in Human Resource Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
COMM_V 622-001	COMM_V	622	001	Seminar in Classics and Theory Construction in Organizational Behaviour	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
COMM_V 623-001	COMM_V	623	001	Qualitative Research Methods in Organizational Behaviour	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 625-A_001	COMM_V	625	A A_001	Advanced Topics in Organizational Behaviour	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 626-001	COMM_V	626	001	Advanced Topics in Organizational Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
COMM_V 627-001	COMM_V	627	001	Advanced Behavioural Research Methods	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:30 p.m. - 4:30 p.m.
COMM_V 628-001	COMM_V	628	001	Organizational Studies Research Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 633-001	COMM_V	633	001	Modelling Methods in the Research and Practice of Information Systems	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: At least nine graduate course credits in information system topics.	In Person Learning	Mon Tue	9:00 a.m. - 12:00 p.m.
COMM_V 634-001	COMM_V	634	001	Empirical Research Methods in Information Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
COMM_V 634-003	COMM_V	634	003	Empirical Research Methods in Information Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed Thu Fri	4:00 p.m. - 7:00 p.m.
COMM_V 635-001	COMM_V	635	001	Advanced Topics in Management Information Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu Fri	1:00 p.m. - 4:00 p.m.
COMM_V 644-001	COMM_V	644	001	Advanced Topics in Transportation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
COMM_V 644-002	COMM_V	644	002	Advanced Topics in Transportation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Thu Fri	4:00 p.m. - 7:00 p.m.
COMM_V 649-001	COMM_V	649	001	Ph.D. Thesis	W1-2		In Person Learning	Arranged	Arranged
COMM_V 649-002	COMM_V	649	002	Ph.D. Thesis	W1		In Person Learning	Arranged	Arranged
COMM_V 649-003	COMM_V	649	003	Ph.D. Thesis	W2		In Person Learning	Arranged	Arranged
COMM_V 651-001	COMM_V	651	001	Analysis of Accounting Information in Markets	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
COMM_V 654-001	COMM_V	654	001	Analysis of Accounting Information in Organizations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue	9:00 a.m. - 12:00 p.m.

COMM_V 655-001	COMM_V	655	001	Stock Market Inefficiencies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
COMM_V 657-001	COMM_V	657	001	Empirical Methods in Accounting Research	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
COMM_V 659-001	COMM_V	659	001	Advanced Topics in Empirical Accounting Research	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Fri	9:00 a.m. - 12:00 p.m.
COMM_V 660-001	COMM_V	660	001	Research Seminar in Marketing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
COMM_V 661-001	COMM_V	661	001	Analytical Methods and Models in Marketing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
COMM_V 662-001	COMM_V	662	001	Buyer Behaviour	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 12:00 p.m.
COMM_V 662-002	COMM_V	662	002	Buyer Behaviour	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu Fri	9:00 a.m. - 12:00 p.m.
COMM_V 663-001	COMM_V	663	001	Consumer Judgment and Decision Making	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
COMM_V 671-001	COMM_V	671	001	Theory of Finance	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.
COMM_V 671-003	COMM_V	671	003	Theory of Finance	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 3:00 p.m.
COMM_V 672-001	COMM_V	672	001	Advanced Topics in Theoretical Corporate Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
COMM_V 673-001	COMM_V	673	001	Advanced Topics in Theoretical Asset Pricing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
COMM_V 673-002	COMM_V	673	002	Advanced Topics in Theoretical Asset Pricing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed Thu Fri	4:00 p.m. - 8:00 p.m.
COMM_V 674-001	COMM_V	674	001	Advanced Topics in Empirical Asset Pricing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
COMM_V 675-001	COMM_V	675	001	Research Seminar in Finance Workshop	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
COMM_V 676-001	COMM_V	676	001	Advanced Topics in Empirical Corporate Finance	W2	Credit will be granted for only one of COMM 695 or COMM 605. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
COMM_V 676-002	COMM_V	676	002	Advanced Topics in Empirical Corporate Finance	W2	Credit will be granted for only one of COMM 695 or COMM 605. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
COMM_V 676-003	COMM_V	676	003	Advanced Topics in Empirical Corporate Finance	W2	Credit will be granted for only one of COMM 695 or COMM 605. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	5:00 p.m. - 8:00 p.m.
COMM_V 682-001	COMM_V	682	001	Advanced Topics in Stochastic Models	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 1:00 p.m.
COMM_V 682-002	COMM_V	682	002	Advanced Topics in Stochastic Models	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Fri	9:00 a.m. - 12:30 p.m.
COMM_V 691-001	COMM_V	691	001	Advanced Topics in Strategy and Business Economics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
COMM_V 691-002	COMM_V	691	002	Advanced Topics in Strategy and Business Economics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 5:00 p.m.
COMM_V 691-003	COMM_V	691	003	Advanced Topics in Strategy and Business Economics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu	5:00 p.m. - 7:00 p.m.

COMM_V 692-001	COMM_V	692	001	Research Seminar in Strategy and Business Economics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
COMM_V 696-001	COMM_V	696	001	Applied Research in Business Economics and Strategy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
COMR_V 100-201	COMR_V	100	201	Introduction to Business	W2	An overview of all functional areas of business. Students will be introduced to the computer and internet tools commonly used in business. For non-Commerce students only. Credit will be granted for only one of COMR 100 or COMM 100. Equivalency: COMM 100	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.	
COMR_V 186-A_101	COMR_V	186	A	A_101	Topics in Business I	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 186	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMR_V 186-A_201	COMR_V	186	A	A_201	Topics in Business I	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 186	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
COMR_V 280-101	COMR_V	280		101	Entrepreneurship	W1	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMR 280 or COMM 280. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM280	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMR_V 280-102	COMR_V	280		102	Entrepreneurship	W1	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMR 280 or COMM 280. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM280	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMR_V 280-103	COMR_V	280		103	Entrepreneurship	W1	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMR 280 or COMM 280. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM280	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMR_V 280-104	COMR_V	280		104	Entrepreneurship	W1	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMR 280 or COMM 280. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM280	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
COMR_V 280-201	COMR_V	280		201	Entrepreneurship	W2	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMR 280 or COMM 280. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM280	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMR_V 280-202	COMR_V	280		202	Entrepreneurship	W2	Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMR 280 or COMM 280. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM280	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMR_V 329-101	COMR_V	329		101	Principles of Organizational Behaviour	W1	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership (for non-Commerce students only). Not for students with credit for, or exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 329	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMR_V 329-102	COMR_V	329		102	Principles of Organizational Behaviour	W1	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership (for non-Commerce students only). Not for students with credit for, or exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 329	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMR_V 329-103	COMR_V	329		103	Principles of Organizational Behaviour	W1	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership (for non-Commerce students only). Not for students with credit for, or exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 329	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMR_V 329-104	COMR_V	329		104	Principles of Organizational Behaviour	W1	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership (for non-Commerce students only). Not for students with credit for, or exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 329	In Person Learning	Arranged	Arranged
COMR_V 329-201	COMR_V	329		201	Principles of Organizational Behaviour	W2	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership (for non-Commerce students only). Not for students with credit for, or exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 329	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMR_V 329-202	COMR_V	329		202	Principles of Organizational Behaviour	W2	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership (for non-Commerce students only). Not for students with credit for, or exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 329	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMR_V 329-203	COMR_V	329		203	Principles of Organizational Behaviour	W2	An introductory examination of work organizations and the behaviour of individuals within them. Phenomena to be studied include organizational structure, environments, group processes, motivation and leadership (for non-Commerce students only). Not for students with credit for, or exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 329	Hybrid Learning	Thu	3:30 p.m. - 6:30 p.m.
COMR_V 382-201	COMR_V	382		201	Economics of Entrepreneurship and Innovation	W2	Fundamental economic issues faced by entrepreneurs who want to commercialize innovations within start-ups and established firms. Credit will be granted for only one of COMR 382 or COMM 382. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310. Corequisite: One of COMM 280, COMR 280. Equivalency: COMM382	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMR_V 382-202	COMR_V	382		202	Economics of Entrepreneurship and Innovation	W2	Fundamental economic issues faced by entrepreneurs who want to commercialize innovations within start-ups and established firms. Credit will be granted for only one of COMR 382 or COMM 382. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310. Corequisite: One of COMM 280, COMR 280. Equivalency: COMM382	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

COMR_V 386-I_201	COMR_V	386	I	I_201	Topics in Business III	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Equivalency: COMM386	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMR_V 386-L_201	COMR_V	386	L	L_201	Topics in Business III	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Equivalency: COMM386	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMR_V 387-101	COMR_V	387		101	Entrepreneurial Finance and Private Equity	W1	Financial issues encountered by entrepreneurs and those active on the investing side of entrepreneurship, such as working for banks, venture capital firms, or corporate venture organizations, or anyone interacting with entrepreneurs and private equity investors. Credit will be granted for only one of COMR 387, COEC 387, or COMM 387. This course is not eligible for Credit/D/Fail grading. Corequisite: One of COMM 280, COMR 280. Equivalency: COEC387, COMM387	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMR_V 387-102	COMR_V	387		102	Entrepreneurial Finance and Private Equity	W1	Financial issues encountered by entrepreneurs and those active on the investing side of entrepreneurship, such as working for banks, venture capital firms, or corporate venture organizations, or anyone interacting with entrepreneurs and private equity investors. Credit will be granted for only one of COMR 387, COEC 387, or COMM 387. This course is not eligible for Credit/D/Fail grading. Corequisite: One of COMM 280, COMR 280. Equivalency: COEC387, COMM387	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
COMR_V 388-101	COMR_V	388		101	Design Methods for Business Innovation	W1	Studio-based experience in thinking strategies and design processes applied to business innovation in the private, public, and social sectors. Emphasis on problem solving, co-creation, and innovation for external clients in a collaborative environment. Credit will be granted for only one of COMR 388 or COMM 388. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Equivalency: COMM388	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
COMR_V 388-201	COMR_V	388		201	Design Methods for Business Innovation	W2	Studio-based experience in thinking strategies and design processes applied to business innovation in the private, public, and social sectors. Emphasis on problem solving, co-creation, and innovation for external clients in a collaborative environment. Credit will be granted for only one of COMR 388 or COMM 388. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Equivalency: COMM388	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
COMR_V 389-201	COMR_V	389		201	Creativity in Business	W2	The role and importance of creativity in developing successful business solutions. Credit will be granted for only one of COMR 389 or COMM 389. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Equivalency: COMM389	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMR_V 398-101	COMR_V	398		101	Introduction to Business Processes and Operations	W1	The design and management of systems that efficiently and effectively supply products and services to the end-user. The concepts apply to a variety of settings such as manufacturing, logistics, healthcare, and others (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 204 or COMM 398. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 398	Hybrid Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
COMR_V 398-201	COMR_V	398		201	Introduction to Business Processes and Operations	W2	The design and management of systems that efficiently and effectively supply products and services to the end-user. The concepts apply to a variety of settings such as manufacturing, logistics, healthcare, and others (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 204 or COMM 398. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 398	Hybrid Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMR_V 398-202	COMR_V	398		202	Introduction to Business Processes and Operations	W2	The design and management of systems that efficiently and effectively supply products and services to the end-user. The concepts apply to a variety of settings such as manufacturing, logistics, healthcare, and others (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 204 or COMM 398. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 398	Hybrid Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
COMR_V 457-101	COMR_V	457		101	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMR_V 457-102	COMR_V	457		102	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMR_V 457-201	COMR_V	457		201	Fundamentals of Financial Accounting	W2	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	Hybrid Learning	Mon	5:30 p.m. - 8:30 p.m.
COMR_V 457-D00	COMR_V	457		D00	Fundamentals of Financial Accounting	W2	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	Hybrid Learning	Arranged	Arranged
COMR_V 457-D01	COMR_V	457		D01	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 457-D02	COMR_V	457		D02	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 457-D03	COMR_V	457		D03	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 457-D04	COMR_V	457		D04	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged

COMR_V 457-D05	COMR_V	457	D05	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 457-D06	COMR_V	457	D06	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 457-D07	COMR_V	457	D07	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 457-D08	COMR_V	457	D08	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 457-D09	COMR_V	457	D09	Fundamentals of Financial Accounting	W1	Financial accounting for business organizations; principles and problems of accounting measurements; forms of business organizations; financing of businesses. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 293, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457	In Person Learning	Arranged	Arranged
COMR_V 458-201	COMR_V	458	201	Fundamentals of Managerial Accounting	W2	Use of accounting data in decision making by businesses; financial statement analysis; cash flows; cost behaviour patterns; methods of accounting for costs. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 294 or COMM 458. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 458	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
COMR_V 458-D01	COMR_V	458	D01	Fundamentals of Managerial Accounting	W2	Use of accounting data in decision making by businesses; financial statement analysis; cash flows; cost behaviour patterns; methods of accounting for costs. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 294 or COMM 458. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 458	In Person Learning	Arranged	Arranged
COMR_V 458-D02	COMR_V	458	D02	Fundamentals of Managerial Accounting	W2	Use of accounting data in decision making by businesses; financial statement analysis; cash flows; cost behaviour patterns; methods of accounting for costs. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 294 or COMM 458. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 458	In Person Learning	Arranged	Arranged
COMR_V 458-D03	COMR_V	458	D03	Fundamentals of Managerial Accounting	W2	Use of accounting data in decision making by businesses; financial statement analysis; cash flows; cost behaviour patterns; methods of accounting for costs. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 294 or COMM 458. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 458	In Person Learning	Arranged	Arranged
COMR_V 465-101	COMR_V	465	101	Marketing Management	W1	Basic considerations affecting the domestic and international marketing of goods and services. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 296, COMM 420, or COMM 465. This course is not eligible for Credit/D/Fail grading. Corequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Equivalency: COMM 465	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
COMR_V 465-102	COMR_V	465	102	Marketing Management	W1	Basic considerations affecting the domestic and international marketing of goods and services. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 296, COMM 420, or COMM 465. This course is not eligible for Credit/D/Fail grading. Corequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Equivalency: COMM 465	Hybrid Learning	Mon	6:00 p.m. - 9:00 p.m.
COMR_V 465-201	COMR_V	465	201	Marketing Management	W2	Basic considerations affecting the domestic and international marketing of goods and services. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 296, COMM 420, or COMM 465. This course is not eligible for Credit/D/Fail grading. Corequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Equivalency: COMM 465	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
COMR_V 465-202	COMR_V	465	202	Marketing Management	W2	Basic considerations affecting the domestic and international marketing of goods and services. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 296, COMM 420, or COMM 465. This course is not eligible for Credit/D/Fail grading. Corequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Equivalency: COMM 465	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
COMR_V 465-203	COMR_V	465	203	Marketing Management	W2	Basic considerations affecting the domestic and international marketing of goods and services. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 296, COMM 420, or COMM 465. This course is not eligible for Credit/D/Fail grading. Corequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Equivalency: COMM 465	Hybrid Learning	Mon	6:00 p.m. - 9:00 p.m.
COMR_V 473-101	COMR_V	473	101	Business Finance	W1	Introduction to managerial finance, including the role and functioning of financial markets, procurement of funds and financing strategies, dividend policy, capital budgeting and financial analysis and planning. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 298, COMM 421, or COMM 473. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310; and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Corequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 473	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.

COMR_V 473-102	COMR_V	473	102	Business Finance	W1	Introduction to managerial finance, including the role and functioning of financial markets, procurement of funds and financing strategies, dividend policy, capital budgeting and financial analysis and planning. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 298, COMM 421, or COMM 473. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310; and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Corequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 473	Hybrid Learning	Wed	6:00 p.m. - 9:00 p.m.
COMR_V 473-201	COMR_V	473	201	Business Finance	W2	Introduction to managerial finance, including the role and functioning of financial markets, procurement of funds and financing strategies, dividend policy, capital budgeting and financial analysis and planning. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 298, COMM 421, or COMM 473. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310; and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Corequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 473	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
COMR_V 473-202	COMR_V	473	202	Business Finance	W2	Introduction to managerial finance, including the role and functioning of financial markets, procurement of funds and financing strategies, dividend policy, capital budgeting and financial analysis and planning. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 298, COMM 421, or COMM 473. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 101, ECON 102 or (b) ECON 100 or (c) all of ECON 310, ECON 311 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310; and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Corequisite: One of COMM 293, COMM 457, COMR 457. Equivalency: COMM 473	Hybrid Learning	Wed	6:00 p.m. - 9:00 p.m.
COMR_V 482-201	COMR_V	482	201	New Product Development	W2	How new products are developed and the factors that influence success and failure throughout the various stages of development. Credit will be granted for only one of COMR 482 or COMM 482. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Equivalency: COMM 482	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
COMR_V 482-202	COMR_V	482	202	New Product Development	W2	How new products are developed and the factors that influence success and failure throughout the various stages of development. Credit will be granted for only one of COMR 482 or COMM 482. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Equivalency: COMM 482	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMR_V 485-101	COMR_V	485	101	Social Entrepreneurship	W1	An applied course that examines the innovative, growing, and rapidly evolving field of social entrepreneurship, which tackles social and environmental challenges through business perspectives and methods. Credit will be granted for only one of COMR 485 or COMM 485. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 485	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
COMR_V 493-101	COMR_V	493	101	Strategic Management in Business	W1	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change (For non-Commerce students only in fourth year). Not for students with credit for, or exemption from, COMM 491 or COMM 493. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457 and either (a) all of ECON 101, ECON 102 or (b) all of ECON 310, ECON 311 or (c) ECON 100 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Corequisite: One of COMM 329, COMR 329 and one of COMM 465, COMR 465 and one of COMM 473, COMR 473. Equivalency: COMM493	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
COMR_V 493-102	COMR_V	493	102	Strategic Management in Business	W1	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change (For non-Commerce students only in fourth year). Not for students with credit for, or exemption from, COMM 491 or COMM 493. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457 and either (a) all of ECON 101, ECON 102 or (b) all of ECON 310, ECON 311 or (c) ECON 100 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Corequisite: One of COMM 329, COMR 329 and one of COMM 465, COMR 465 and one of COMM 473, COMR 473. Equivalency: COMM493	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMR_V 493-201	COMR_V	493	201	Strategic Management in Business	W2	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change (For non-Commerce students only in fourth year). Not for students with credit for, or exemption from, COMM 491 or COMM 493. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457 and either (a) all of ECON 101, ECON 102 or (b) all of ECON 310, ECON 311 or (c) ECON 100 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Corequisite: One of COMM 329, COMR 329 and one of COMM 465, COMR 465 and one of COMM 473, COMR 473. Equivalency: COMM493	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
COMR_V 493-202	COMR_V	493	202	Strategic Management in Business	W2	A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change (For non-Commerce students only in fourth year). Not for students with credit for, or exemption from, COMM 491 or COMM 493. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 457, COMR 457 and either (a) all of ECON 101, ECON 102 or (b) all of ECON 310, ECON 311 or (c) ECON 100 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Corequisite: One of COMM 329, COMR 329 and one of COMM 465, COMR 465 and one of COMM 473, COMR 473. Equivalency: COMM493	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
COMR_V 497-101	COMR_V	497	101	New Enterprise Development	W1	The particular problems and experiences encountered in starting, developing, and managing new enterprises. The course includes lectures, guest speakers, and case studies. Credit will be granted for only one of COMR 497, COMM 466, COMM 497, COEC 497, APSC 486, or APSC 496E. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Corequisite: One of COMM 382, COMR 382 and one of COMM 387, COMR 387. Equivalency: COEC497, COMM497	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
COMR_V 497-201	COMR_V	497	201	New Enterprise Development	W2	The particular problems and experiences encountered in starting, developing, and managing new enterprises. The course includes lectures, guest speakers, and case studies. Credit will be granted for only one of COMR 497, COMM 466, COMM 497, COEC 497, APSC 486, or APSC 496E. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280. Corequisite: One of COMM 382, COMR 382 and one of COMM 387, COMR 387. Equivalency: COEC497, COMM497	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.

CONS_V 101-101	CONS_V	101	101	Introduction to Conservation	W1	Seminars on current natural resources conservation and forest sciences topics. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CONS_V 127-101	CONS_V	127	101	Observing the Earth from Space	W1	Exploration of innovative Earth observation and other geospatial technologies and how they allow us to better understand the changing Earth. [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CONS_V 127-201	CONS_V	127	201	Observing the Earth from Space	W2	Exploration of innovative Earth observation and other geospatial technologies and how they allow us to better understand the changing Earth. [3-0-0]	In Person Learning	Mon Tue	5:00 p.m. - 6:30 p.m.
CONS_V 200-001	CONS_V	200	001	Foundations of Conservation	W1	Conceptual foundations of conservation; means of conserving nature and natural resources. [3-0-0]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CONS_V 200-002	CONS_V	200	002	Foundations of Conservation	W2	Conceptual foundations of conservation; means of conserving nature and natural resources. [3-0-0]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CONS_V 210-101	CONS_V	210	101	Visualizing Climate Change	W1	Introduction to climate change through the lens of local landscapes and future scenarios, using visual media to communicate the underlying science & psychology, and engage communities in local climate change solutions.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CONS_V 302-101	CONS_V	302	101	Issues in Genomics and the Environment	W1	Introductory genomics in the context of genetics and epigenetics; current and topical issues, including genetic determinism, environmental DNA, revival of extinct species, and applications of genomics to improve our life and environment including adaptation to climate change. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CONS_V 310-201	CONS_V	310	201	Ecology in a Changing Climate	W2	Impact of climate change on ecological systems. Builds framework for understanding past and future changes following fundamental organizing units of ecology - individuals, populations, species, communities, and ecosystems. Prerequisite: One of BIOL 121, GEOS 207.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CONS_V 314-201	CONS_V	314	201	Elements of Biodiversity	W2	The units of biodiversity, from genes to ecosystems, how they are structured in space, and their importance to human well-being and ecosystem health. [3-0-0] Prerequisite: One of APBI 260, BIOL 230, FRST 201, NRES 201, GEOS 207. Equivalency: BIOL 314	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CONS_V 314-T01	CONS_V	314	T01	Elements of Biodiversity	W2	The units of biodiversity, from genes to ecosystems, how they are structured in space, and their importance to human well-being and ecosystem health. [3-0-0] Prerequisite: One of APBI 260, BIOL 230, FRST 201, NRES 201, GEOS 207. Equivalency: BIOL 314	In Person Learning	Arranged	Arranged
CONS_V 314-T02	CONS_V	314	T02	Elements of Biodiversity	W2	The units of biodiversity, from genes to ecosystems, how they are structured in space, and their importance to human well-being and ecosystem health. [3-0-0] Prerequisite: One of APBI 260, BIOL 230, FRST 201, NRES 201, GEOS 207. Equivalency: BIOL 314	In Person Learning	Arranged	Arranged
CONS_V 330-201	CONS_V	330	201	Conservation Science and Sustainability	W2	Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [3-2-0] Prerequisite: One of BIOL 121, GEOS 102, GEOS 103. Second-year standing required.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CONS_V 330-L01	CONS_V	330	L01	Conservation Science and Sustainability	W2	Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [3-2-0] Prerequisite: One of BIOL 121, GEOS 102, GEOS 103. Second-year standing required.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
CONS_V 330-L02	CONS_V	330	L02	Conservation Science and Sustainability	W2	Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [3-2-0] Prerequisite: One of BIOL 121, GEOS 102, GEOS 103. Second-year standing required.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CONS_V 330-L03	CONS_V	330	L03	Conservation Science and Sustainability	W2	Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [3-2-0] Prerequisite: One of BIOL 121, GEOS 102, GEOS 103. Second-year standing required.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CONS_V 330-L04	CONS_V	330	L04	Conservation Science and Sustainability	W2	Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [3-2-0] Prerequisite: One of BIOL 121, GEOS 102, GEOS 103. Second-year standing required.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
CONS_V 370-201	CONS_V	370	201	Indigenous Forestry	W2	Principles, issues and ethics germane to working with or for Indigenous Nations or communities, including Indigenous rights and title, relational values and natural resources governance. [3-0-0] Current concepts, methods, and applications of belowground ecology with emphasis on biotic interactions in soil; to understand the roles that aboveground and belowground communities play in regulating the structure and function of terrestrial ecosystems and their responses to global change. [3-0-0] Credit will be granted for only one of CONS 412, APBI 412, or FRST 512. Prerequisite: Fourth year standing in the Faculty of Forestry or a Bachelor of Science Program awarded by any Faculty. Equivalency: APBI 412	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CONS_V 412-201	CONS_V	412	201	Belowground Ecosystems	W2	Energy as a global policy problem; current energy challenges; energy systems and energy analysis; the politics and policy of energy alternatives. [3-0-0] Prerequisite: Third- or fourth-year standing; 100-level MATH course.	In Person Learning	Arranged	Arranged
CONS_V 425-201	CONS_V	425	201	Sustainable Energy: Policy and Governance	W2	An introduction to policy and decision making for conserving biodiversity in an uncertain world using a combination of ecological data and decision science. [3-1-0] Prerequisite: [CONS200]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CONS_V 440-101	CONS_V	440	101	Conservation Decision-Making and Policy	W1	An introduction to policy and decision making for conserving biodiversity in an uncertain world using a combination of ecological data and decision science. [3-1-0] Prerequisite: [CONS200]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CONS_V 440-L01	CONS_V	440	L01	Conservation Decision-Making and Policy	W1	An introduction to policy and decision making for conserving biodiversity in an uncertain world using a combination of ecological data and decision science. [3-1-0] Prerequisite: [CONS200] In special cases and with the approval of the instructor concerned, a student may carry out directed studies of specific problems in natural resources conservation.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
CONS_V 449-C_101	CONS_V	449	C	C_101	W1	The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

CONS_V 449-C_151	CONS_V	449	C	C_151	Directed Studies in Natural Resources Conservation	W1	In special cases and with the approval of the instructor concerned, a student may carry out directed studies of specific problems in natural resources conservation. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CONS_V 449-C_201	CONS_V	449	C	C_201	Directed Studies in Natural Resources Conservation	W2	In special cases and with the approval of the instructor concerned, a student may carry out directed studies of specific problems in natural resources conservation. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CONS_V 449-C_202	CONS_V	449	C	C_202	Directed Studies in Natural Resources Conservation	W2	In special cases and with the approval of the instructor concerned, a student may carry out directed studies of specific problems in natural resources conservation. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CONS_V 449-F_001	CONS_V	449	F	F_001	Directed Studies in Natural Resources Conservation	W1-2	In special cases and with the approval of the instructor concerned, a student may carry out directed studies of specific problems in natural resources conservation. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CONS_V 449-F_101	CONS_V	449	F	F_101	Directed Studies in Natural Resources Conservation	W1	In special cases and with the approval of the instructor concerned, a student may carry out directed studies of specific problems in natural resources conservation. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CONS_V 449-F_201	CONS_V	449	F	F_201	Directed Studies in Natural Resources Conservation	W2	In special cases and with the approval of the instructor concerned, a student may carry out directed studies of specific problems in natural resources conservation. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CONS_V 451-101	CONS_V	451		101	Integrated Field School	W1	Field methods, research and analysis, community-oriented projects, and the interactions between biological and social aspects of conservation research. Students may not take any other courses in conjunction with CONS 451. Restricted to B.Sc. in Natural Resources Conservation students in the fourth year of the Science and Management Major or B.Sc. in Natural Resources students in the fourth year of the Science and Management Specialization of the Conservation Major. This course is not eligible for Credit/D/Fail grading. [10-10-10] Prerequisite: All of CONS 330, CONS 340, CONS 440, CONS 481, FRST 385, FRST 386, FRST 395. Examination of global resources and sustainability via scenario evaluation, modelling, and prescription. Students must have already completed their International/Cultural Experience. This course is not eligible for Credit/D/Fail grading. [3-0-9] Prerequisite: CONS 330 and one of NRES 231, FRST 231, BIOL 300 and one of NRES 241, CONS 340, NRES 340, GEOS 270. and fourth-year standing in the Global Perspectives Specialization of the Conservation Major. Corequisite: One of NRES 341, FRST 443, NRES 443.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 6:00 p.m.
CONS_V 452-201	CONS_V	452		201	Global Perspectives Capstone	W2		In Person Learning	Mon Tue Wed Thu	11:00 a.m. - 2:00 p.m.
CONS_V 481-101	CONS_V	481		101	Conservation Planning in Practice	W1	Theory, tools and practical skills needed to conduct conservation planning at the community level. Addresses issues of developing and implementing plans in the context of sustainability goals, political realities and diverse public opinion. [2-2-0]	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
CONS_V 481-L01	CONS_V	481		L01	Conservation Planning in Practice	W1	Theory, tools and practical skills needed to conduct conservation planning at the community level. Addresses issues of developing and implementing plans in the context of sustainability goals, political realities and diverse public opinion. [2-2-0]	In Person Learning	Mon	5:00 p.m. - 7:00 p.m.
CONS_V 481-L02	CONS_V	481		L02	Conservation Planning in Practice	W1	Theory, tools and practical skills needed to conduct conservation planning at the community level. Addresses issues of developing and implementing plans in the context of sustainability goals, political realities and diverse public opinion. [2-2-0]	In Person Learning	Tue	12:30 p.m. - 2:30 p.m.
CONS_V 481-L03	CONS_V	481		L03	Conservation Planning in Practice	W1	Theory, tools and practical skills needed to conduct conservation planning at the community level. Addresses issues of developing and implementing plans in the context of sustainability goals, political realities and diverse public opinion. [2-2-0]	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CONS_V 486-201	CONS_V	486		201	Fish Conservation and Management	W2	Principles of fish biology, population and community ecology necessary to understand conservation and management; overview of current issues, tactics and institutions involved with fisheries conservation and management. [2-3-0] Prerequisite: FRST 386.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
CONS_V 486-L01	CONS_V	486		L01	Fish Conservation and Management	W2	Principles of fish biology, population and community ecology necessary to understand conservation and management; overview of current issues, tactics and institutions involved with fisheries conservation and management. [2-3-0] Prerequisite: FRST 386.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
CONS_V 491-101	CONS_V	491		101	Recreation and Tourism Planning	W1	Principles and methods for planning urban and rural recreation and related tourism resources including analyzing recreation resources, applying policies and standards, developing park/recreation area management plans, and understanding benefits to human and community wellbeing and biodiversity. [3-0-0] Prerequisite: Third-year standing.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
CONS_V 495-201	CONS_V	495		201	Human Wildlife Conflict	W2	Evaluation of the impacts of human wildlife conflicts on wildlife populations; application of innovative methods to reduce human wildlife conflicts. [2-0-1] Prerequisite: Third-year standing or higher. BIOL 230 or FRST 395 and APBI 315 or APBI 416 recommended. Equivalency: APBI495	In Person Learning	Arranged	Arranged
CONS_V 496-101	CONS_V	496		101	Primate Conservation in the Anthropocene	W1	Modern-day threats facing primates and the wide range of conservation strategies being implemented globally to protect them. Prerequisite: Third year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CONS_V 498-001	CONS_V	498		001	Thesis or Special Project	W1-2	An independent study or research project of a subject of special interest to the student under the supervision of a staff member.	In Person Learning	Arranged	Arranged
CONS_V 498-101	CONS_V	498		101	Thesis or Special Project	W1	An independent study or research project of a subject of special interest to the student under the supervision of a staff member.	In Person Learning	Arranged	Arranged
CONS_V 498-201	CONS_V	498		201	Thesis or Special Project	W2	An independent study or research project of a subject of special interest to the student under the supervision of a staff member.	In Person Learning	Arranged	Arranged
CONS_V 498-610	CONS_V	498		610	Thesis or Special Project	W1-2	An independent study or research project of a subject of special interest to the student under the supervision of a staff member.	In Person Learning	Arranged	Arranged

CONS_V 503-A_101	CONS_V	503	A	A_101	Topics in Conservation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 4:00 p.m.
CONS_V 503-C_103	CONS_V	503	C	C_103	Topics in Conservation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	11:30 a.m. - 2:30 p.m.
CONS_V 504-C_001	CONS_V	504	C	C_001	Directed Studies in Conservation	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CONS_V 504-C_101	CONS_V	504	C	C_101	Directed Studies in Conservation	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CONS_V 504-C_102	CONS_V	504	C	C_102	Directed Studies in Conservation	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CONS_V 504-C_201	CONS_V	504	C	C_201	Directed Studies in Conservation	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CONS_V 505-201	CONS_V	505		201	Ecological Restoration	W2	Global overview of ecological restoration, examining perspectives and practices in diverse ecosystems worldwide. Causes of degradation, motivations for restoration (including cultural underpinnings), restoration objectives (biodiversity, ecosystem function, ecosystem services), restoration practices (and their evolution over time), challenges and lessons learnt. Credit will be granted for only one of CONS 505 or UFOR 403. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CONS_V 506-201	CONS_V	506		201	Forest Conservation in Asia: Challenges and Opportunities	W2	Key forest conservation issues in Asia, regional strategies, programs, and practices for restoration of critical landscapes, rehabilitation of terrestrial ecosystems and conservation of flagship species. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CONS_V 506-202	CONS_V	506		202	Forest Conservation in Asia: Challenges and Opportunities	W2	Key forest conservation issues in Asia, regional strategies, programs, and practices for restoration of critical landscapes, rehabilitation of terrestrial ecosystems and conservation of flagship species. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CONS_V 528-101	CONS_V	528		101	Social Science Research Methods and Design for Natural Resource Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CONS_V 528-201	CONS_V	528		201	Social Science Research Methods and Design for Natural Resource Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
CPEN_V 211-101	CPEN_V	211		101	Computing Systems I	W1	Boolean algebra; combinational and sequential circuits; organization and operation of microcomputers, memory addressing modes, representation of information, instruction sets, machine and assembly language programming, systems programs, I/O structures, I/O interfacing and I/O programming, introduction to digital system design using microcomputers. Credit will be granted for only one of CPEN 211, CPEN 312, EECE 256, EECE 259 or EECE 355. This course is not eligible for Credit/D/Fail grading. [4-2-2*] Prerequisite: APSC 160.	In Person Learning	Tue Thu	3:30 p.m. - 5:30 p.m.
CPEN_V 211-L1A	CPEN_V	211		L1A	Computing Systems I	W1	Boolean algebra; combinational and sequential circuits; organization and operation of microcomputers, memory addressing modes, representation of information, instruction sets, machine and assembly language programming, systems programs, I/O structures, I/O interfacing and I/O programming, introduction to digital system design using microcomputers. Credit will be granted for only one of CPEN 211, CPEN 312, EECE 256, EECE 259 or EECE 355. This course is not eligible for Credit/D/Fail grading. [4-2-2*] Prerequisite: APSC 160.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
CPEN_V 211-L1B	CPEN_V	211		L1B	Computing Systems I	W1	Boolean algebra; combinational and sequential circuits; organization and operation of microcomputers, memory addressing modes, representation of information, instruction sets, machine and assembly language programming, systems programs, I/O structures, I/O interfacing and I/O programming, introduction to digital system design using microcomputers. Credit will be granted for only one of CPEN 211, CPEN 312, EECE 256, EECE 259 or EECE 355. This course is not eligible for Credit/D/Fail grading. [4-2-2*] Prerequisite: APSC 160.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
CPEN_V 211-L1C	CPEN_V	211		L1C	Computing Systems I	W1	Boolean algebra; combinational and sequential circuits; organization and operation of microcomputers, memory addressing modes, representation of information, instruction sets, machine and assembly language programming, systems programs, I/O structures, I/O interfacing and I/O programming, introduction to digital system design using microcomputers. Credit will be granted for only one of CPEN 211, CPEN 312, EECE 256, EECE 259 or EECE 355. This course is not eligible for Credit/D/Fail grading. [4-2-2*] Prerequisite: APSC 160.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
CPEN_V 211-L1D	CPEN_V	211		L1D	Computing Systems I	W1	Boolean algebra; combinational and sequential circuits; organization and operation of microcomputers, memory addressing modes, representation of information, instruction sets, machine and assembly language programming, systems programs, I/O structures, I/O interfacing and I/O programming, introduction to digital system design using microcomputers. Credit will be granted for only one of CPEN 211, CPEN 312, EECE 256, EECE 259 or EECE 355. This course is not eligible for Credit/D/Fail grading. [4-2-2*] Prerequisite: APSC 160.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
CPEN_V 211-L1E	CPEN_V	211		L1E	Computing Systems I	W1	Boolean algebra; combinational and sequential circuits; organization and operation of microcomputers, memory addressing modes, representation of information, instruction sets, machine and assembly language programming, systems programs, I/O structures, I/O interfacing and I/O programming, introduction to digital system design using microcomputers. Credit will be granted for only one of CPEN 211, CPEN 312, EECE 256, EECE 259 or EECE 355. This course is not eligible for Credit/D/Fail grading. [4-2-2*] Prerequisite: APSC 160.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.

CPEN_V 211-T1A	CPEN_V	211		T1A	Computing Systems I	W1	Boolean algebra; combinational and sequential circuits; organization and operation of microcomputers, memory addressing modes, representation of information, instruction sets, machine and assembly language programming, systems programs, I/O structures, I/O interfacing and I/O programming, introduction to digital system design using microcomputers. Credit will be granted for only one of CPEN 211, CPEN 312, EECE 256, EECE 259 or EECE 355. This course is not eligible for Credit/D/Fail grading. [4-2-2*] Prerequisite: APSC 160.	In Person Learning	Fri (Alternate weeks)	4:00 p.m. - 6:00 p.m.
CPEN_V 212-201	CPEN_V	212		201	Computing Systems II	W2	Abstractions at the hardware-software interface and their low-level implementation. Procedure invocation, dynamic dispatch, and related exploits; library linkage, virtual memory, heap management, garbage collection, and caches; interrupts, signals, and processes; threads, locks, and cache coherence; files, devices, and network topology. [3-2-0] Prerequisite: CPEN 211 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPEN_V 212-L2A	CPEN_V	212		L2A	Computing Systems II	W2	Abstractions at the hardware-software interface and their low-level implementation. Procedure invocation, dynamic dispatch, and related exploits; library linkage, virtual memory, heap management, garbage collection, and caches; interrupts, signals, and processes; threads, locks, and cache coherence; files, devices, and network topology. [3-2-0] Prerequisite: CPEN 211 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
CPEN_V 212-L2B	CPEN_V	212		L2B	Computing Systems II	W2	Abstractions at the hardware-software interface and their low-level implementation. Procedure invocation, dynamic dispatch, and related exploits; library linkage, virtual memory, heap management, garbage collection, and caches; interrupts, signals, and processes; threads, locks, and cache coherence; files, devices, and network topology. [3-2-0] Prerequisite: CPEN 211 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
CPEN_V 212-L2C	CPEN_V	212		L2C	Computing Systems II	W2	Abstractions at the hardware-software interface and their low-level implementation. Procedure invocation, dynamic dispatch, and related exploits; library linkage, virtual memory, heap management, garbage collection, and caches; interrupts, signals, and processes; threads, locks, and cache coherence; files, devices, and network topology. [3-2-0] Prerequisite: CPEN 211 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
CPEN_V 221-A_101	CPEN_V	221	A	A_101	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CPEN_V 221-A_L1A	CPEN_V	221	A	A_L1A	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
CPEN_V 221-A_L1B	CPEN_V	221	A	A_L1B	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
CPEN_V 221-A_L1C	CPEN_V	221	A	A_L1C	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.
CPEN_V 221-A_T1A	CPEN_V	221	A	A_T1A	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
CPEN_V 221-A_T1B	CPEN_V	221	A	A_T1B	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Wed	5:00 p.m. - 6:30 p.m.
CPEN_V 221-B_101	CPEN_V	221	B	B_101	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Arranged	Arranged
CPEN_V 221-B_L1A	CPEN_V	221	B	B_L1A	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
CPEN_V 221-B_L1B	CPEN_V	221	B	B_L1B	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
CPEN_V 221-B_L1C	CPEN_V	221	B	B_L1C	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
CPEN_V 221-B_T1A	CPEN_V	221	B	B_T1A	Software Construction I	W1	Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2*] Prerequisite: APSC 160.	In Person Learning	Arranged	Arranged
CPEN_V 223-101	CPEN_V	223		101	Software Design for Engineers I	W1	Introduction to robust software design: static typing, procedural specifications, unit testing, black-box & white-box tests, user-defined data types (representations, invariants, abstraction functions), data abstractions, communicating design (e.g., UML). This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Mon Fri	3:00 p.m. - 4:30 p.m.
CPEN_V 223-L1A	CPEN_V	223		L1A	Software Design for Engineers I	W1	Introduction to robust software design: static typing, procedural specifications, unit testing, black-box & white-box tests, user-defined data types (representations, invariants, abstraction functions), data abstractions, communicating design (e.g., UML). This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
CPEN_V 223-L1B	CPEN_V	223		L1B	Software Design for Engineers I	W1	Introduction to robust software design: static typing, procedural specifications, unit testing, black-box & white-box tests, user-defined data types (representations, invariants, abstraction functions), data abstractions, communicating design (e.g., UML). This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
CPEN_V 223-L1C	CPEN_V	223		L1C	Software Design for Engineers I	W1	Introduction to robust software design: static typing, procedural specifications, unit testing, black-box & white-box tests, user-defined data types (representations, invariants, abstraction functions), data abstractions, communicating design (e.g., UML). This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.

CPEN_V 281-101	CPEN_V	281	101	Technical Communication	W1	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPEN_V 281-102	CPEN_V	281	102	Technical Communication	W1	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CPEN_V 281-103	CPEN_V	281	103	Technical Communication	W1	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPEN_V 291-201	CPEN_V	291	201	Computer Engineering Design Studio I	W2	Design projects involving hardware (electronic devices and circuits, microcomputers) and software. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: CPEN 211. Corequisite: ELEC 201.	In Person Learning	Arranged	Arranged
CPEN_V 291-L2A	CPEN_V	291	L2A	Computer Engineering Design Studio I	W2	Design projects involving hardware (electronic devices and circuits, microcomputers) and software. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: CPEN 211. Corequisite: ELEC 201.	In Person Learning	Arranged	Arranged
CPEN_V 291-L2B	CPEN_V	291	L2B	Computer Engineering Design Studio I	W2	Design projects involving hardware (electronic devices and circuits, microcomputers) and software. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: CPEN 211. Corequisite: ELEC 201.	In Person Learning	Arranged	Arranged
CPEN_V 311-101	CPEN_V	311	101	Digital Systems Design	W1	Advanced combinational and sequential electronic system design. Hardware specification, modelling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmable logic including FPGA's. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: One of CPEN 211, CPEN 312.	In Person Learning	Arranged	Arranged
CPEN_V 311-102	CPEN_V	311	102	Digital Systems Design	W1	Advanced combinational and sequential electronic system design. Hardware specification, modelling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmable logic including FPGA's. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: One of CPEN 211, CPEN 312.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
CPEN_V 311-L1A	CPEN_V	311	L1A	Digital Systems Design	W1	Advanced combinational and sequential electronic system design. Hardware specification, modelling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmable logic including FPGA's. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: One of CPEN 211, CPEN 312.	In Person Learning	Mon	12:00 p.m. - 3:00 p.m.
CPEN_V 311-L1B	CPEN_V	311	L1B	Digital Systems Design	W1	Advanced combinational and sequential electronic system design. Hardware specification, modelling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmable logic including FPGA's. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: One of CPEN 211, CPEN 312.	In Person Learning	Tue	8:00 a.m. - 11:00 a.m.
CPEN_V 311-L1C	CPEN_V	311	L1C	Digital Systems Design	W1	Advanced combinational and sequential electronic system design. Hardware specification, modelling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmable logic including FPGA's. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: One of CPEN 211, CPEN 312.	In Person Learning	Thu	8:00 a.m. - 11:00 a.m.
CPEN_V 312-201	CPEN_V	312	201	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Wed Fri	8:30 a.m. - 10:00 a.m.
CPEN_V 312-L2A	CPEN_V	312	L2A	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Mon (Alternate weeks)	5:00 p.m. - 7:00 p.m.
CPEN_V 312-L2B	CPEN_V	312	L2B	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Mon (Alternate weeks)	1:00 p.m. - 3:00 p.m.
CPEN_V 312-L2C	CPEN_V	312	L2C	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 7:00 p.m.

CPEN_V 312-L2D	CPEN_V	312	L2D	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Tue (Alternate weeks)	8:30 a.m. - 10:30 a.m.
CPEN_V 312-L2E	CPEN_V	312	L2E	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Arranged	Arranged
CPEN_V 312-L2F	CPEN_V	312	L2F	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Tue (Alternate weeks)	3:00 p.m. - 5:00 p.m.
CPEN_V 312-L2J	CPEN_V	312	L2J	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Arranged	Arranged
CPEN_V 312-L2K	CPEN_V	312	L2K	Digital Systems and Microcomputers	W2	Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinatorial and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; data/address bus organization; input-output interfacing. Credit will be granted for only one of CPEN 312, CPEN 211. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221.	In Person Learning	Mon (Alternate weeks)	3:00 p.m. - 5:00 p.m.
CPEN_V 320-101	CPEN_V	320	101	Software Construction II	W1	Contemporary concepts and techniques for developing interactive software applications: client-server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of CPEN 221, CPSC 221.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CPEN_V 320-L1A	CPEN_V	320	L1A	Software Construction II	W1	Contemporary concepts and techniques for developing interactive software applications: client-server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of CPEN 221, CPSC 221.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
CPEN_V 320-L1B	CPEN_V	320	L1B	Software Construction II	W1	Contemporary concepts and techniques for developing interactive software applications: client-server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of CPEN 221, CPSC 221.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CPEN_V 321-101	CPEN_V	321	101	Software Engineering	W1	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Arranged	Arranged
CPEN_V 321-201	CPEN_V	321	201	Software Engineering	W2	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CPEN_V 321-L1A	CPEN_V	321	L1A	Software Engineering	W1	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Arranged	Arranged
CPEN_V 321-L1B	CPEN_V	321	L1B	Software Engineering	W1	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Arranged	Arranged
CPEN_V 321-L1C	CPEN_V	321	L1C	Software Engineering	W1	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Arranged	Arranged
CPEN_V 321-L2A	CPEN_V	321	L2A	Software Engineering	W2	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
CPEN_V 321-L2B	CPEN_V	321	L2B	Software Engineering	W2	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
CPEN_V 321-L2C	CPEN_V	321	L2C	Software Engineering	W2	Engineering practices for the development of non-trivial software-intensive systems including requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for only one of CPSC 310, CPEN 321. This course is not eligible for Credit/D/Fail grading. [3-2-0] Corequisite: CPEN 322.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
CPEN_V 322-201	CPEN_V	322	201	Software Construction II	W2	Contemporary concepts and techniques for developing interactive software applications: client-server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of CPEN 221, CPSC 221.	In Person Learning	Arranged	Arranged

CPEN_V 322-L2A	CPEN_V	322	L2A	Software Construction II	W2	Contemporary concepts and techniques for developing interactive software applications: client-server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of CPEN 221, CPSC 221.	In Person Learning	Arranged	Arranged	
CPEN_V 322-L2B	CPEN_V	322	L2B	Software Construction II	W2	Contemporary concepts and techniques for developing interactive software applications: client-server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of CPEN 221, CPSC 221.	In Person Learning	Arranged	Arranged	
CPEN_V 322-L2C	CPEN_V	322	L2C	Software Construction II	W2	Contemporary concepts and techniques for developing interactive software applications: client-server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of CPEN 221, CPSC 221.	In Person Learning	Arranged	Arranged	
CPEN_V 331-101	CPEN_V	331	101	Operating Systems	W1	Operating systems, their design and their implementation. Process concurrency, synchronization, communication and scheduling. Device drivers, memory management, virtual memory, file systems, networking and security. [3-3-0] Prerequisite: CPEN 212 and CPEN 221.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
CPEN_V 331-L1A	CPEN_V	331	L1A	Operating Systems	W1	Operating systems, their design and their implementation. Process concurrency, synchronization, communication and scheduling. Device drivers, memory management, virtual memory, file systems, networking and security. [3-3-0] Prerequisite: CPEN 212 and CPEN 221.	In Person Learning	Fri	2:30 p.m. - 5:30 p.m.	
CPEN_V 331-L1B	CPEN_V	331	L1B	Operating Systems	W1	Operating systems, their design and their implementation. Process concurrency, synchronization, communication and scheduling. Device drivers, memory management, virtual memory, file systems, networking and security. [3-3-0] Prerequisite: CPEN 212 and CPEN 221.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
CPEN_V 331-L1C	CPEN_V	331	L1C	Operating Systems	W1	Operating systems, their design and their implementation. Process concurrency, synchronization, communication and scheduling. Device drivers, memory management, virtual memory, file systems, networking and security. [3-3-0] Prerequisite: CPEN 212 and CPEN 221.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
CPEN_V 331-L1D	CPEN_V	331	L1D	Operating Systems	W1	Operating systems, their design and their implementation. Process concurrency, synchronization, communication and scheduling. Device drivers, memory management, virtual memory, file systems, networking and security. [3-3-0] Prerequisite: CPEN 212 and CPEN 221.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
CPEN_V 333-A_101	CPEN_V	333	A	A_101	Software Design for Engineers II	W1	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CPEN_V 333-A_201	CPEN_V	333	A	A_201	Software Design for Engineers II	W2	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CPEN_V 333-A_L1A	CPEN_V	333	A	A_L1A	Software Design for Engineers II	W1	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
CPEN_V 333-A_L1B	CPEN_V	333	A	A_L1B	Software Design for Engineers II	W1	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
CPEN_V 333-A_L2A	CPEN_V	333	A	A_L2A	Software Design for Engineers II	W2	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
CPEN_V 333-A_L2B	CPEN_V	333	A	A_L2B	Software Design for Engineers II	W2	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
CPEN_V 333-B_101	CPEN_V	333	B	B_101	Software Design for Engineers II	W1	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CPEN_V 333-B_201	CPEN_V	333	B	B_201	Software Design for Engineers II	W2	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CPEN_V 333-B_L1A	CPEN_V	333	B	B_L1A	Software Design for Engineers II	W1	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Arranged	Arranged
CPEN_V 333-B_L1B	CPEN_V	333	B	B_L1B	Software Design for Engineers II	W1	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Arranged	Arranged
CPEN_V 333-B_L2A	CPEN_V	333	B	B_L2A	Software Design for Engineers II	W2	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
CPEN_V 333-B_L2B	CPEN_V	333	B	B_L2B	Software Design for Engineers II	W2	Use of operating systems abstractions; real-time systems; principles of concurrent and multi-threaded programming; information structures; introduction to object oriented analysis; design, and modelling using UML; software testing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 259, CPEN 223.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
CPEN_V 355-101	CPEN_V	355	101	Machine Learning with Engineering Applications	W1	Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 302, STAT 321, ELEC 321 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.	
CPEN_V 355-201	CPEN_V	355	201	Machine Learning with Engineering Applications	W2	Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 302, STAT 321, ELEC 321 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.	
CPEN_V 355-T1A	CPEN_V	355	T1A	Machine Learning with Engineering Applications	W1	Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 302, STAT 321, ELEC 321 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.	

CPEN_V 355-T2A	CPEN_V	355		T2A	Machine Learning with Engineering Applications	W2	Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 302, STAT 321, ELEC 321 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
CPEN_V 391-101	CPEN_V	391		101	Computer Engineering Design Studio II	W1	Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, ELEC 201.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
CPEN_V 391-201	CPEN_V	391		201	Computer Engineering Design Studio II	W2	Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, ELEC 201.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
CPEN_V 391-L1A	CPEN_V	391		L1A	Computer Engineering Design Studio II	W1	Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, ELEC 201.	In Person Learning	Tue Thu	4:00 p.m. - 7:00 p.m.
CPEN_V 391-L2A	CPEN_V	391		L2A	Computer Engineering Design Studio II	W2	Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, ELEC 201.	In Person Learning	Tue Thu	11:00 a.m. - 2:00 p.m.
CPEN_V 391-L2B	CPEN_V	391		L2B	Computer Engineering Design Studio II	W2	Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, ELEC 201.	In Person Learning	Tue Thu	2:00 p.m. - 5:00 p.m.
CPEN_V 400-Q_207	CPEN_V	400	Q	Q_207	Topics in Computer Engineering	W2	Lectures or projects on subjects of current interest.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
CPEN_V 400-Q_L2A	CPEN_V	400	Q	Q_L2A	Topics in Computer Engineering	W2	Lectures or projects on subjects of current interest.	In Person Learning	Arranged	Arranged
CPEN_V 400-Q_L2B	CPEN_V	400	Q	Q_L2B	Topics in Computer Engineering	W2	Lectures or projects on subjects of current interest.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
CPEN_V 411-101	CPEN_V	411		101	Computer Architecture	W1	Modern processors, GPUs, and memory hierarchies; quantitative principles and instruction set design; pipelining, superscalar issue, out-of-order execution, branch prediction and speculation; memory hierarchies, caches, virtual addressing, prefetching, coherence, and consistency; multicores, VLIW, on-chip networks, and other advanced architectures. Credit will be granted for only one of CPSC 313, CPEN 411. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 212, CPEN 311, CPEN 312.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CPEN_V 411-T1A	CPEN_V	411		T1A	Computer Architecture	W1	Modern processors, GPUs, and memory hierarchies; quantitative principles and instruction set design; pipelining, superscalar issue, out-of-order execution, branch prediction and speculation; memory hierarchies, caches, virtual addressing, prefetching, coherence, and consistency; multicores, VLIW, on-chip networks, and other advanced architectures. Credit will be granted for only one of CPSC 313, CPEN 411. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 212, CPEN 311, CPEN 312.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
CPEN_V 412-101	CPEN_V	412		101	Microcomputer Systems Design	W1	Microprocessor and system buses; advanced I/O methods; priority interrupts; event/exception handling; serial I/O; computer networking; memory system design; interaction of hardware and software, microprocessor comparison, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 311 and one of CPEN 211, CPEN 312.	In Person Learning	Wed Fri	12:00 p.m. - 1:30 p.m.
CPEN_V 412-102	CPEN_V	412		102	Microcomputer Systems Design	W1	Microprocessor and system buses; advanced I/O methods; priority interrupts; event/exception handling; serial I/O; computer networking; memory system design; interaction of hardware and software, microprocessor comparison, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 311 and one of CPEN 211, CPEN 312.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CPEN_V 412-201	CPEN_V	412		201	Microcomputer Systems Design	W2	Microprocessor and system buses; advanced I/O methods; priority interrupts; event/exception handling; serial I/O; computer networking; memory system design; interaction of hardware and software, microprocessor comparison, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 311 and one of CPEN 211, CPEN 312.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
CPEN_V 412-L1A	CPEN_V	412		L1A	Microcomputer Systems Design	W1	Microprocessor and system buses; advanced I/O methods; priority interrupts; event/exception handling; serial I/O; computer networking; memory system design; interaction of hardware and software, microprocessor comparison, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 311 and one of CPEN 211, CPEN 312.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
CPEN_V 412-L2A	CPEN_V	412		L2A	Microcomputer Systems Design	W2	Microprocessor and system buses; advanced I/O methods; priority interrupts; event/exception handling; serial I/O; computer networking; memory system design; interaction of hardware and software, microprocessor comparison, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 311 and one of CPEN 211, CPEN 312.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
CPEN_V 416-201	CPEN_V	416		201	Gate-Model Quantum Computing	W2	A software-based introduction to gate-model quantum computing algorithms. Basic elements of quantum computation; analysis and software implementation of Grover's algorithm, Shor's algorithm, quantum compilation, variational algorithms, Hamiltonian simulation, noise characterization. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CPEN 221, CPEN 223, CPSC 259, CPSC 221, PHYS 210, and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Arranged	Arranged
CPEN_V 421-201	CPEN_V	421		201	Software Project Management	W2	Advanced project planning, cost estimation and scheduling. Project management tools. Factors influencing productivity and success. Productivity metrics. Analysis of options and risk. Tools. Case studies. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 321, CPSC 310.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

CPEN_V 421-T2A	CPEN_V	421	T2A	Software Project Management	W2	Advanced project planning, cost estimation and scheduling. Project management tools. Factors influencing productivity and success. Productivity metrics. Analysis of options and risk. Tools. Case studies. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 321, CPSC 310.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
CPEN_V 422-101	CPEN_V	422	101	Software Testing and Analysis	W1	Different levels of testing including unit, integration, system, performance and regression levels. Requirements flowdown. Problem tracking. Coverage criteria. Static methods. Tools support. Specialized techniques. Assessment of correctness, reliability, safety. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 221, CPEN 321, CPSC 210, CPSC 310.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
CPEN_V 422-L1A	CPEN_V	422	L1A	Software Testing and Analysis	W1	Different levels of testing including unit, integration, system, performance and regression levels. Requirements flowdown. Problem tracking. Coverage criteria. Static methods. Tools support. Specialized techniques. Assessment of correctness, reliability, safety. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 221, CPEN 321, CPSC 210, CPSC 310.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CPEN_V 431-201	CPEN_V	431	201	Design of Distributed Software Applications	W2	Communications, processes, naming, synchronization, consistency and replication, fault tolerance, middleware, and security technologies for distributed applications. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 331, CPSC 313 and one of CPEN 221, CPSC 210.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
CPEN_V 431-L2A	CPEN_V	431	L2A	Design of Distributed Software Applications	W2	Communications, processes, naming, synchronization, consistency and replication, fault tolerance, middleware, and security technologies for distributed applications. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 331, CPSC 313 and one of CPEN 221, CPSC 210.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
CPEN_V 431-L2B	CPEN_V	431	L2B	Design of Distributed Software Applications	W2	Communications, processes, naming, synchronization, consistency and replication, fault tolerance, middleware, and security technologies for distributed applications. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 331, CPSC 313 and one of CPEN 221, CPSC 210.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CPEN_V 432-101	CPEN_V	432	101	Real-time System Design	W1	Multi-tasking; interrupt-driven systems; task scheduling; schedulability analysis; inter-process communication and synchronization; resource management; performance measurement; hardware/software integration; hardware/software tradeoffs; system reliability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 333, CPEN 331, CPSC 313.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CPEN_V 441-101	CPEN_V	441	101	Human Computer Interfaces in Engineering Design	W1	Practical issues for interfaces for modern software. Task analysis, user modelling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualization, engineering design. This course is not eligible for Credit/D/Fail grading. [3-1-2*] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333.	In Person Learning	Arranged	Arranged
CPEN_V 441-201	CPEN_V	441	201	Human Computer Interfaces in Engineering Design	W2	Practical issues for interfaces for modern software. Task analysis, user modelling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualization, engineering design. This course is not eligible for Credit/D/Fail grading. [3-1-2*] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.
CPEN_V 441-L1A	CPEN_V	441	L1A	Human Computer Interfaces in Engineering Design	W1	Practical issues for interfaces for modern software. Task analysis, user modelling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualization, engineering design. This course is not eligible for Credit/D/Fail grading. [3-1-2*] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333.	In Person Learning	Arranged	Arranged
CPEN_V 441-L2A	CPEN_V	441	L2A	Human Computer Interfaces in Engineering Design	W2	Practical issues for interfaces for modern software. Task analysis, user modelling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualization, engineering design. This course is not eligible for Credit/D/Fail grading. [3-1-2*] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333.	In Person Learning	Tue	8:00 p.m. - 9:00 p.m.
CPEN_V 441-T1A	CPEN_V	441	T1A	Human Computer Interfaces in Engineering Design	W1	Practical issues for interfaces for modern software. Task analysis, user modelling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualization, engineering design. This course is not eligible for Credit/D/Fail grading. [3-1-2*] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333.	In Person Learning	Arranged	Arranged
CPEN_V 441-T2A	CPEN_V	441	T2A	Human Computer Interfaces in Engineering Design	W2	Practical issues for interfaces for modern software. Task analysis, user modelling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualization, engineering design. This course is not eligible for Credit/D/Fail grading. [3-1-2*] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333.	In Person Learning	Thu	8:30 p.m. - 9:30 p.m.
CPEN_V 442-101	CPEN_V	442	101	Introduction to Cybersecurity	W1	Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control, assurance, accountability; usable privacy and security; engineering of secure systems; cryptocurrencies. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 333, CPEN 331, CPSC 313.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPEN_V 442-201	CPEN_V	442	201	Introduction to Cybersecurity	W2	Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control, assurance, accountability; usable privacy and security; engineering of secure systems; cryptocurrencies. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 333, CPEN 331, CPSC 313.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
CPEN_V 442-L1A	CPEN_V	442	L1A	Introduction to Cybersecurity	W1	Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control, assurance, accountability; usable privacy and security; engineering of secure systems; cryptocurrencies. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 333, CPEN 331, CPSC 313.	In Person Learning	Arranged	Arranged
CPEN_V 442-L1B	CPEN_V	442	L1B	Introduction to Cybersecurity	W1	Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control, assurance, accountability; usable privacy and security; engineering of secure systems; cryptocurrencies. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 333, CPEN 331, CPSC 313.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
CPEN_V 442-L2A	CPEN_V	442	L2A	Introduction to Cybersecurity	W2	Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control, assurance, accountability; usable privacy and security; engineering of secure systems; cryptocurrencies. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 333, CPEN 331, CPSC 313.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CPEN_V 442-L2B	CPEN_V	442	L2B	Introduction to Cybersecurity	W2	Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control, assurance, accountability; usable privacy and security; engineering of secure systems; cryptocurrencies. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 333, CPEN 331, CPSC 313.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
CPEN_V 455-201	CPEN_V	455	201	Deep Learning	W2	Fundamentals of deep learning, including architectures (e.g., MLPs, CNNs, RNNs, Transformers, and GNNs) and learning algorithms under different paradigms (supervised / unsupervised / reinforcement learning). Emphasis on design principles and motivating applications. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 302, STAT 321, ELEC 321 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.

CPEN_V 455-T2A	CPEN_V	455		T2A	Deep Learning	W2	Fundamentals of deep learning, including architectures (e.g., MLPs, CNNs, RNNs, Transformers, and GNNs) and learning algorithms under different paradigms (supervised / unsupervised / reinforcement learning). Emphasis on design principles and motivating applications. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 302, STAT 321, ELEC 321 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
CPEN_V 455-T2W	CPEN_V	455		T2W	Deep Learning	W2	Fundamentals of deep learning, including architectures (e.g., MLPs, CNNs, RNNs, Transformers, and GNNs) and learning algorithms under different paradigms (supervised / unsupervised / reinforcement learning). Emphasis on design principles and motivating applications. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 302, STAT 321, ELEC 321 and one of CPEN 221, CPEN 223, CPSC 259.	In Person Learning	Arranged	Arranged
CPEN_V 481-101	CPEN_V	481		101	Economic Analysis of Engineering Projects	W1	Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, taxation and uncertainty; cost estimation and budgeting; financial analysis of engineering operations. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
CPEN_V 481-201	CPEN_V	481		201	Economic Analysis of Engineering Projects	W2	Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, taxation and uncertainty; cost estimation and budgeting; financial analysis of engineering operations. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
CPEN_V 491-F_001	CPEN_V	491	F	F_001	Computer Engineering Capstone Design Project	W1-2	Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: All of CPEN 331, CPSC 320 and one of CPEN 311, CPEN 322; and one of CPEN 291, CPEN 391.	In Person Learning	Arranged	Arranged
CPEN_V 491-F_002	CPEN_V	491	F	F_002	Computer Engineering Capstone Design Project	W1-2	Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: All of CPEN 331, CPSC 320 and one of CPEN 311, CPEN 322; and one of CPEN 291, CPEN 391.	In Person Learning	Arranged	Arranged
CPEN_V 491-F_L1A	CPEN_V	491	F	F_L1A	Computer Engineering Capstone Design Project	W1-2	Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: All of CPEN 331, CPSC 320 and one of CPEN 311, CPEN 322; and one of CPEN 291, CPEN 391.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
CPEN_V 491-W_201	CPEN_V	491	W	W_201	Computer Engineering Capstone Design Project	W2	Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: All of CPEN 331, CPSC 320 and one of CPEN 311, CPEN 322; and one of CPEN 291, CPEN 391.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CPEN_V 491-W_202	CPEN_V	491	W	W_202	Computer Engineering Capstone Design Project	W2	Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: All of CPEN 331, CPSC 320 and one of CPEN 311, CPEN 322; and one of CPEN 291, CPEN 391.	In Person Learning	Arranged	Arranged
CPEN_V 491-W_L2A	CPEN_V	491	W	W_L2A	Computer Engineering Capstone Design Project	W2	Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: All of CPEN 331, CPSC 320 and one of CPEN 311, CPEN 322; and one of CPEN 291, CPEN 391.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
CPEN_V 497-F_101	CPEN_V	497	F	F_101	Research Experience in Computer Engineering	W1	Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
CPEN_V 497-W_201	CPEN_V	497	W	W_201	Research Experience in Computer Engineering	W2	Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
CPEN_V 499-A_001	CPEN_V	499	A	A_001	Undergraduate Thesis	W1-2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPEN_V 499-A_101	CPEN_V	499	A	A_101	Undergraduate Thesis	W1	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPEN_V 499-A_201	CPEN_V	499	A	A_201	Undergraduate Thesis	W2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPEN_V 499-B_001	CPEN_V	499	B	B_001	Undergraduate Thesis	W1-2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

CPEN_V 499-B_101	CPEN_V	499	B	B_101	Undergraduate Thesis	W1	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPEN_V 499-B_201	CPEN_V	499	B	B_201	Undergraduate Thesis	W2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPEN_V 502-101	CPEN_V	502		101	Architecture for Learning Systems	W1	Credit will only be given for one of CPEN 502 or EECE 592. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
CPEN_V 511-201	CPEN_V	511		201	Advanced Computer Architecture	W2	Credit will only be given for one of CPEN 511 or EECE 527. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPEN_V 512-101	CPEN_V	512		101	Parallel and Reconfigurable Computing	W1	Credit will only be given for one of CPEN 512 or EECE 528. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 2:30 p.m.
CPEN_V 514-109	CPEN_V	514		109	Quantum Information and Computation	W1	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
CPEN_V 514-201	CPEN_V	514		201	Quantum Information and Computation	W2	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
CPEN_V 522-201	CPEN_V	522		201	Software Verification and Testing	W2	Credit will only be given for one of CPEN 522 or EECE 514. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CPEN_V 534-201	CPEN_V	534		201	Trade-offs in Designing Computer Systems	W2	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CPEN_V 541-201	CPEN_V	541		201	Human Interface Technologies	W1	Credit will only be given for one of CPEN 541 or EECE 518. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
CPEN_V 542-101	CPEN_V	542		101	Cybersecurity	W1	Credit will only be given for one of CPEN 542 or EECE 512. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPEN_V 542-201	CPEN_V	542		201	Cybersecurity	W2	Credit will only be given for one of CPEN 542 or EECE 512. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CPSC_V 100-101	CPSC_V	100		101	Computational Thinking	W1	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CPSC_V 100-201	CPSC_V	100		201	Computational Thinking	W2	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 100-L1A	CPSC_V	100		L1A	Computational Thinking	W1	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
CPSC_V 100-L1B	CPSC_V	100		L1B	Computational Thinking	W1	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
CPSC_V 100-L1C	CPSC_V	100		L1C	Computational Thinking	W1	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Tue	5:30 p.m. - 6:30 p.m.
CPSC_V 100-L1D	CPSC_V	100		L1D	Computational Thinking	W1	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
CPSC_V 100-L1E	CPSC_V	100		L1E	Computational Thinking	W1	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
CPSC_V 100-L1F	CPSC_V	100		L1F	Computational Thinking	W1	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
CPSC_V 100-L2A	CPSC_V	100		L2A	Computational Thinking	W2	Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-1-0]	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.





CPSC_V 103-T2T	CPSC_V	103	T2T	Introduction to Systematic Program Design	W2	Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]	In Person Learning	Thu	6:00 p.m. - 7:00 p.m.
CPSC_V 103-T2U	CPSC_V	103	T2U	Introduction to Systematic Program Design	W2	Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 103-T2V	CPSC_V	103	T2V	Introduction to Systematic Program Design	W2	Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
CPSC_V 103-V01	CPSC_V	103	V01	Introduction to Systematic Program Design	W2	Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 103-VT1	CPSC_V	103	VT1	Introduction to Systematic Program Design	W2	Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
CPSC_V 103-VT2	CPSC_V	103	VT2	Introduction to Systematic Program Design	W2	Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
CPSC_V 103-VT3	CPSC_V	103	VT3	Introduction to Systematic Program Design	W2	Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
CPSC_V 107-207	CPSC_V	107	207	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPSC_V 107-L2A	CPSC_V	107	L2A	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
CPSC_V 107-L2B	CPSC_V	107	L2B	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
CPSC_V 107-L2C	CPSC_V	107	L2C	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
CPSC_V 107-L2D	CPSC_V	107	L2D	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
CPSC_V 107-L2E	CPSC_V	107	L2E	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
CPSC_V 107-L2F	CPSC_V	107	L2F	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Tue	5:00 p.m. - 7:00 p.m.
CPSC_V 107-L2G	CPSC_V	107	L2G	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
CPSC_V 107-L2H	CPSC_V	107	L2H	Systematic Program Design	W2	Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.	In Person Learning	Mon	5:00 p.m. - 7:00 p.m.
CPSC_V 110-101	CPSC_V	110	101	Computation, Programs, and Programming	W1	Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. [3-3-0]	Hybrid Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CPSC_V 110-102	CPSC_V	110	102	Computation, Programs, and Programming	W1	Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. [3-3-0]	Hybrid Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPSC_V 110-103	CPSC_V	110	103	Computation, Programs, and Programming	W1	Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. [3-3-0]	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 110-201	CPSC_V	110	201	Computation, Programs, and Programming	W2	Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. [3-3-0]	Hybrid Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPSC_V 110-202	CPSC_V	110	202	Computation, Programs, and Programming	W2	Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. [3-3-0]	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 110-203	CPSC_V	110	203	Computation, Programs, and Programming	W2	Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. [3-3-0]	Hybrid Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CPSC_V 110-9CH	CPSC_V	110	9CH	Computation, Programs, and Programming	W1	Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. [3-3-0]	In Person Learning	Arranged	Arranged















CPSC_V 121-T2P	CPSC_V	121	T2P	Models of Computation	W2	Physical and mathematical structures of computation. Boolean algebra and combinations logic circuits; proof techniques; functions and sequential circuits; sets and relations; finite state machines; sequential instruction execution. [3-2-1] Prerequisite: Principles of Mathematics 12 or Pre-calculus 12. Corequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
CPSC_V 203-201	CPSC_V	203	201	Programming, Problem Solving, and Algorithms	W2	Analysis of increasingly complex algorithmic problems, using a modern programming language and a variety of approaches. Problem decomposition and abstraction guide explorations of topics from applied algorithms, for example Voronoi Diagrams, Markov Chains, Bin Packing, and Graph Search. Not for students with credit for, or currently enrolled in, CPSC 210 or CPEN 221. [3-0-1] Prerequisite: One of CPSC 103, CPSC 110, APSC 160, EOSC 211, MATH 210, PHYS 210, COMM 337.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPSC_V 210-101	CPSC_V	210	101	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CPSC_V 210-102	CPSC_V	210	102	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CPSC_V 210-103	CPSC_V	210	103	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
CPSC_V 210-201	CPSC_V	210	201	Software Construction	W2	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CPSC_V 210-202	CPSC_V	210	202	Software Construction	W2	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CPSC_V 210-203	CPSC_V	210	203	Software Construction	W2	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 210-L1A	CPSC_V	210	L1A	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
CPSC_V 210-L1B	CPSC_V	210	L1B	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
CPSC_V 210-L1C	CPSC_V	210	L1C	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
CPSC_V 210-L1D	CPSC_V	210	L1D	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
CPSC_V 210-L1E	CPSC_V	210	L1E	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
CPSC_V 210-L1F	CPSC_V	210	L1F	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
CPSC_V 210-L1G	CPSC_V	210	L1G	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
CPSC_V 210-L1H	CPSC_V	210	L1H	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CPSC_V 210-L1J	CPSC_V	210	L1J	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
CPSC_V 210-L1K	CPSC_V	210	L1K	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
CPSC_V 210-L1L	CPSC_V	210	L1L	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
CPSC_V 210-L1M	CPSC_V	210	L1M	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
CPSC_V 210-L1N	CPSC_V	210	L1N	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
CPSC_V 210-L1P	CPSC_V	210	L1P	Software Construction	W1	Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [3-2-0] Prerequisite: One of CPSC 107, CPSC 110.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.











CPSC_V 259-L1B	CPSC_V	259	L1B	Data Structures and Algorithms for Electrical Engineers	W1	Advanced procedural programming. Fundamental algorithms for sorting and searching. Data structures including lists, trees, and hash tables. Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
CPSC_V 259-L1C	CPSC_V	259	L1C	Data Structures and Algorithms for Electrical Engineers	W1	Advanced procedural programming. Fundamental algorithms for sorting and searching. Data structures including lists, trees, and hash tables. Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
CPSC_V 259-L1D	CPSC_V	259	L1D	Data Structures and Algorithms for Electrical Engineers	W1	Advanced procedural programming. Fundamental algorithms for sorting and searching. Data structures including lists, trees, and hash tables. Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
CPSC_V 259-L1E	CPSC_V	259	L1E	Data Structures and Algorithms for Electrical Engineers	W1	Advanced procedural programming. Fundamental algorithms for sorting and searching. Data structures including lists, trees, and hash tables. Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
CPSC_V 259-L1F	CPSC_V	259	L1F	Data Structures and Algorithms for Electrical Engineers	W1	Advanced procedural programming. Fundamental algorithms for sorting and searching. Data structures including lists, trees, and hash tables. Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
CPSC_V 259-L1G	CPSC_V	259	L1G	Data Structures and Algorithms for Electrical Engineers	W1	Advanced procedural programming. Fundamental algorithms for sorting and searching. Data structures including lists, trees, and hash tables. Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
CPSC_V 298-611	CPSC_V	298	611	Co-operative Work Placement I	W2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during Winter Session of second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 298-612	CPSC_V	298	612	Co-operative Work Placement I	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during Winter Session of second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 298-CP2	CPSC_V	298	CP2	Co-operative Work Placement I	W1-2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during Winter Session of second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 299-611	CPSC_V	299	611	Co-operative Work Placement II	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the second year. Technical report required. Restricted to students admitted to the Co-operative Education. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPSC298]	In Person Learning	Arranged	Arranged
CPSC_V 299-612	CPSC_V	299	612	Co-operative Work Placement II	W2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the second year. Technical report required. Restricted to students admitted to the Co-operative Education. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPSC298]	In Person Learning	Arranged	Arranged
CPSC_V 299-CP1	CPSC_V	299	CP1	Co-operative Work Placement II	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the second year. Technical report required. Restricted to students admitted to the Co-operative Education. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPSC298]	In Person Learning	Arranged	Arranged
CPSC_V 299-CP2	CPSC_V	299	CP2	Co-operative Work Placement II	W1-2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the second year. Technical report required. Restricted to students admitted to the Co-operative Education. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPSC298]	In Person Learning	Arranged	Arranged
CPSC_V 302-101	CPSC_V	302	101	Numerical Computation for Algebraic Problems	W1	Numerical techniques for basic mathematical processes involving no discretization, and their analysis. Solution of linear systems, including analysis of round-off errors; norms and condition number; introduction to iterative techniques in linear algebra, including eigenvalue problems; solution to nonlinear equations. [3-0-0] Prerequisite: One of CPSC 103, CPSC 110, CPEN 221, EOCS 211, PHYS 210 and one of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPSC_V 303-201	CPSC_V	303	201	Numerical Approximation and Discretization	W2	Numerical techniques for basic mathematical processes involving discretization, and their analysis. Interpolation and approximation, including splines and least squares data fitting; numerical differentiation and integration; introduction to numerical initial value ordinary differential equations. [3-0-0] Prerequisite: One of CPSC 103, CPSC 110, CPEN 221, EOCS 211, PHYS 210 and one of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CPSC_V 304-101	CPSC_V	304	101	Introduction to Relational Databases	W1	Overview of database systems, ER models, logical database design and normalization, formal relational query languages, SQL and other commercial languages, data warehouses, special topics. [3-0-1] Prerequisite: CPSC 221.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CPSC_V 304-103	CPSC_V	304	103	Introduction to Relational Databases	W1	Overview of database systems, ER models, logical database design and normalization, formal relational query languages, SQL and other commercial languages, data warehouses, special topics. [3-0-1] Prerequisite: CPSC 221.	In Person Learning	Wed Fri	3:30 p.m. - 5:00 p.m.
CPSC_V 304-201	CPSC_V	304	201	Introduction to Relational Databases	W2	Overview of database systems, ER models, logical database design and normalization, formal relational query languages, SQL and other commercial languages, data warehouses, special topics. [3-0-1] Prerequisite: CPSC 221.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CPSC_V 304-202	CPSC_V	304	202	Introduction to Relational Databases	W2	Overview of database systems, ER models, logical database design and normalization, formal relational query languages, SQL and other commercial languages, data warehouses, special topics. [3-0-1] Prerequisite: CPSC 221.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CPSC_V 304-203	CPSC_V	304	203	Introduction to Relational Databases	W2	Overview of database systems, ER models, logical database design and normalization, formal relational query languages, SQL and other commercial languages, data warehouses, special topics. [3-0-1] Prerequisite: CPSC 221.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
CPSC_V 304-T1A	CPSC_V	304	T1A	Introduction to Relational Databases	W1	Overview of database systems, ER models, logical database design and normalization, formal relational query languages, SQL and other commercial languages, data warehouses, special topics. [3-0-1] Prerequisite: CPSC 221.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.





CPSC_V 310-L1R	CPSC_V	310	L1R	Introduction to Software Engineering	W1	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
CPSC_V 310-L1S	CPSC_V	310	L1S	Introduction to Software Engineering	W1	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
CPSC_V 310-L2A	CPSC_V	310	L2A	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
CPSC_V 310-L2B	CPSC_V	310	L2B	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
CPSC_V 310-L2C	CPSC_V	310	L2C	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
CPSC_V 310-L2D	CPSC_V	310	L2D	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CPSC_V 310-L2E	CPSC_V	310	L2E	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
CPSC_V 310-L2F	CPSC_V	310	L2F	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	5:00 p.m. - 7:00 p.m.
CPSC_V 310-L2G	CPSC_V	310	L2G	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
CPSC_V 310-L2H	CPSC_V	310	L2H	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Mon	11:00 a.m. - 1:00 p.m.
CPSC_V 310-L2J	CPSC_V	310	L2J	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
CPSC_V 310-L2K	CPSC_V	310	L2K	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CPSC_V 310-L2M	CPSC_V	310	L2M	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
CPSC_V 310-L2N	CPSC_V	310	L2N	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
CPSC_V 310-L2P	CPSC_V	310	L2P	Introduction to Software Engineering	W2	Specification, design, validation, evolution and construction of modern software systems, within the context of socially and professionally relevant domains such as ethics, intellectual property, and information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CPSC_V 311-101	CPSC_V	311	101	Definition of Programming Languages	W1	Comparative study of advanced programming language features. Statement types, data types, variable binding, parameter passing mechanisms. Methods for syntactic and semantic description of programming languages. [3-0-1] Prerequisite: CPSC 210.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CPSC_V 311-T1A	CPSC_V	311	T1A	Definition of Programming Languages	W1	Comparative study of advanced programming language features. Statement types, data types, variable binding, parameter passing mechanisms. Methods for syntactic and semantic description of programming languages. [3-0-1] Prerequisite: CPSC 210.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
CPSC_V 311-T1B	CPSC_V	311	T1B	Definition of Programming Languages	W1	Comparative study of advanced programming language features. Statement types, data types, variable binding, parameter passing mechanisms. Methods for syntactic and semantic description of programming languages. [3-0-1] Prerequisite: CPSC 210.	In Person Learning	Mon	6:00 p.m. - 7:00 p.m.
CPSC_V 311-T1C	CPSC_V	311	T1C	Definition of Programming Languages	W1	Comparative study of advanced programming language features. Statement types, data types, variable binding, parameter passing mechanisms. Methods for syntactic and semantic description of programming languages. [3-0-1] Prerequisite: CPSC 210.	In Person Learning	Tue	3:00 p.m. - 4:00 p.m.
CPSC_V 311-T1D	CPSC_V	311	T1D	Definition of Programming Languages	W1	Comparative study of advanced programming language features. Statement types, data types, variable binding, parameter passing mechanisms. Methods for syntactic and semantic description of programming languages. [3-0-1] Prerequisite: CPSC 210.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
CPSC_V 311-T1E	CPSC_V	311	T1E	Definition of Programming Languages	W1	Comparative study of advanced programming language features. Statement types, data types, variable binding, parameter passing mechanisms. Methods for syntactic and semantic description of programming languages. [3-0-1] Prerequisite: CPSC 210.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
CPSC_V 312-101	CPSC_V	312	101	Functional and Logic Programming	W1	Principles of symbolic computing, using languages based upon first-order logic and the lambda calculus. Algorithms for implementing such languages. Applications to artificial intelligence and knowledge representation. [3-0-0] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 312-201	CPSC_V	312	201	Functional and Logic Programming	W2	Principles of symbolic computing, using languages based upon first-order logic and the lambda calculus. Algorithms for implementing such languages. Applications to artificial intelligence and knowledge representation. [3-0-0] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged



CPSC_V 313-T2I	CPSC_V	313	T2I	Computer Hardware and Operating Systems	W1	Instruction sets, pipelining, code optimization, caching, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Arranged	Arranged
CPSC_V 313-T2K	CPSC_V	313	T2K	Computer Hardware and Operating Systems	W2	Instruction sets, pipelining, code optimization, caching, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
CPSC_V 313-T2L	CPSC_V	313	T2L	Computer Hardware and Operating Systems	W2	Instruction sets, pipelining, code optimization, caching, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
CPSC_V 314-101	CPSC_V	314	101	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CPSC_V 314-201	CPSC_V	314	201	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CPSC_V 314-L1A	CPSC_V	314	L1A	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
CPSC_V 314-L1B	CPSC_V	314	L1B	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
CPSC_V 314-L1C	CPSC_V	314	L1C	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
CPSC_V 314-L1D	CPSC_V	314	L1D	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
CPSC_V 314-L1E	CPSC_V	314	L1E	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
CPSC_V 314-L1F	CPSC_V	314	L1F	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
CPSC_V 314-L1G	CPSC_V	314	L1G	Computer Graphics	W1	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
CPSC_V 314-L2A	CPSC_V	314	L2A	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Thu	2:30 p.m. - 3:30 p.m.
CPSC_V 314-L2B	CPSC_V	314	L2B	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
CPSC_V 314-L2C	CPSC_V	314	L2C	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
CPSC_V 314-L2D	CPSC_V	314	L2D	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Thu	3:30 p.m. - 4:30 p.m.
CPSC_V 314-L2E	CPSC_V	314	L2E	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
CPSC_V 314-L2F	CPSC_V	314	L2F	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
CPSC_V 314-L2G	CPSC_V	314	L2G	Computer Graphics	W2	Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; hardware and system architectures; shading and lighting; animation. [3-1-0] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
CPSC_V 317-101	CPSC_V	317	101	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CPSC_V 317-102	CPSC_V	317	102	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 317-201	CPSC_V	317	201	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 317-202	CPSC_V	317	202	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.

CPSC_V 317-T1A	CPSC_V	317	T1A	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
CPSC_V 317-T1B	CPSC_V	317	T1B	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
CPSC_V 317-T1C	CPSC_V	317	T1C	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
CPSC_V 317-T1D	CPSC_V	317	T1D	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CPSC_V 317-T1E	CPSC_V	317	T1E	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	1:30 p.m. - 2:30 p.m.
CPSC_V 317-T1F	CPSC_V	317	T1F	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	3:30 p.m. - 4:30 p.m.
CPSC_V 317-T1G	CPSC_V	317	T1G	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
CPSC_V 317-T1H	CPSC_V	317	T1H	Introduction to Computer Networking	W1	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
CPSC_V 317-T2A	CPSC_V	317	T2A	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
CPSC_V 317-T2B	CPSC_V	317	T2B	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
CPSC_V 317-T2C	CPSC_V	317	T2C	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
CPSC_V 317-T2D	CPSC_V	317	T2D	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
CPSC_V 317-T2E	CPSC_V	317	T2E	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
CPSC_V 317-T2F	CPSC_V	317	T2F	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
CPSC_V 317-T2G	CPSC_V	317	T2G	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
CPSC_V 317-T2H	CPSC_V	317	T2H	Introduction to Computer Networking	W2	Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.	In Person Learning	Wed	6:00 p.m. - 7:00 p.m.
CPSC_V 319-201	CPSC_V	319	201	Software Engineering Project	W2	The design, implementation, and test of a large software system, using a team approach. [3-0-2] Prerequisite: CPSC 310.	In Person Learning	Mon Wed	5:30 p.m. - 7:00 p.m.
CPSC_V 320-101	CPSC_V	320	101	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 320-102	CPSC_V	320	102	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
CPSC_V 320-201	CPSC_V	320	201	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CPSC_V 320-202	CPSC_V	320	202	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.

CPSC_V 320-203	CPSC_V	320	203	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPSC_V 320-T1A	CPSC_V	320	T1A	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
CPSC_V 320-T1B	CPSC_V	320	T1B	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
CPSC_V 320-T1C	CPSC_V	320	T1C	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Tue	3:30 p.m. - 4:30 p.m.
CPSC_V 320-T1E	CPSC_V	320	T1E	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
CPSC_V 320-T1F	CPSC_V	320	T1F	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
CPSC_V 320-T1G	CPSC_V	320	T1G	Intermediate Algorithm Design and Analysis	W1	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
CPSC_V 320-T2A	CPSC_V	320	T2A	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Mon	5:00 p.m. - 6:00 p.m.
CPSC_V 320-T2B	CPSC_V	320	T2B	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
CPSC_V 320-T2C	CPSC_V	320	T2C	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
CPSC_V 320-T2D	CPSC_V	320	T2D	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
CPSC_V 320-T2E	CPSC_V	320	T2E	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
CPSC_V 320-T2F	CPSC_V	320	T2F	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
CPSC_V 320-T2P	CPSC_V	320	T2P	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
CPSC_V 320-T2Q	CPSC_V	320	T2Q	Intermediate Algorithm Design and Analysis	W2	Systematic study of basic concepts and techniques in the design and analysis of algorithms, illustrated from various problem areas. Topics include: models of computation; choice of data structures; graph-theoretic, algebraic, and text processing algorithms. [3-0-1] Prerequisite: CPSC 221. and at least 3 credits from COMM 291, BIOL 300, MATH or STAT at 200 level or above.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
CPSC_V 322-101	CPSC_V	322	101	Introduction to Artificial Intelligence	W1	Problem-solving and planning; state/action models and graph searching. Natural language understanding Computational vision. Applications of artificial intelligence. [3-0-0] Prerequisite: CPSC 221.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 322-102	CPSC_V	322	102	Introduction to Artificial Intelligence	W1	Problem-solving and planning; state/action models and graph searching. Natural language understanding Computational vision. Applications of artificial intelligence. [3-0-0] Prerequisite: CPSC 221.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CPSC_V 322-201	CPSC_V	322	201	Introduction to Artificial Intelligence	W2	Problem-solving and planning; state/action models and graph searching. Natural language understanding Computational vision. Applications of artificial intelligence. [3-0-0] Prerequisite: CPSC 221.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CPSC_V 330-101	CPSC_V	330	101	Applied Machine Learning	W1	Application of machine learning tools, with an emphasis on solving practical problems. Data cleaning, feature extraction, supervised and unsupervised machine learning, reproducible workflows, and communicating results. [3-0-1] Prerequisite: Either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.







CPSC_V 344-T1A	CPSC_V	344	T1A	Introduction to Human Computer Interaction Methods	W1	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CPSC_V 344-T1B	CPSC_V	344	T1B	Introduction to Human Computer Interaction Methods	W1	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
CPSC_V 344-T1C	CPSC_V	344	T1C	Introduction to Human Computer Interaction Methods	W1	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Thu	6:00 p.m. - 8:00 p.m.
CPSC_V 344-T1D	CPSC_V	344	T1D	Introduction to Human Computer Interaction Methods	W1	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
CPSC_V 344-T1E	CPSC_V	344	T1E	Introduction to Human Computer Interaction Methods	W1	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
CPSC_V 344-T1F	CPSC_V	344	T1F	Introduction to Human Computer Interaction Methods	W1	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
CPSC_V 344-T1G	CPSC_V	344	T1G	Introduction to Human Computer Interaction Methods	W1	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
CPSC_V 344-T2A	CPSC_V	344	T2A	Introduction to Human Computer Interaction Methods	W2	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CPSC_V 344-T2B	CPSC_V	344	T2B	Introduction to Human Computer Interaction Methods	W2	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
CPSC_V 344-T2C	CPSC_V	344	T2C	Introduction to Human Computer Interaction Methods	W2	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Thu	6:00 p.m. - 8:00 p.m.
CPSC_V 344-T2D	CPSC_V	344	T2D	Introduction to Human Computer Interaction Methods	W2	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
CPSC_V 344-T2E	CPSC_V	344	T2E	Introduction to Human Computer Interaction Methods	W2	Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CPSC_V 349-001	CPSC_V	349	001	Honours Research Seminar	W1	Students will attend a series of research seminars presented by faculty members, produce a thesis proposal, and choose their honours thesis supervisor. Available to Honours students. Majors students with satisfactory standing may also be permitted to enrol. [1-0-0]	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CPSC_V 368-101	CPSC_V	368	101	Databases in Data Science	W1	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
CPSC_V 368-201	CPSC_V	368	201	Databases in Data Science	W2	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 368-T1A	CPSC_V	368	T1A	Databases in Data Science	W1	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
CPSC_V 368-T1B	CPSC_V	368	T1B	Databases in Data Science	W1	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
CPSC_V 368-T1C	CPSC_V	368	T1C	Databases in Data Science	W1	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
CPSC_V 368-T1D	CPSC_V	368	T1D	Databases in Data Science	W1	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
CPSC_V 368-T1E	CPSC_V	368	T1E	Databases in Data Science	W1	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
CPSC_V 368-T2A	CPSC_V	368	T2A	Databases in Data Science	W2	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
CPSC_V 368-T2B	CPSC_V	368	T2B	Databases in Data Science	W2	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
CPSC_V 368-T2C	CPSC_V	368	T2C	Databases in Data Science	W2	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.

CPSC_V 368-T2D	CPSC_V	368	T2D	Databases in Data Science	W2	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
CPSC_V 368-T2E	CPSC_V	368	T2E	Databases in Data Science	W2	Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
CPSC_V 398-601	CPSC_V	398	601	Co-operative Work Placement III	W2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 398-611	CPSC_V	398	611	Co-operative Work Placement III	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 398-CP1	CPSC_V	398	CP1	Co-operative Work Placement III	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 398-CP2	CPSC_V	398	CP2	Co-operative Work Placement III	W1-2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 399-610	CPSC_V	399	610	Co-operative Work Placement IV	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 399-611	CPSC_V	399	611	Co-operative Work Placement IV	W2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 399-CP1	CPSC_V	399	CP1	Co-operative Work Placement IV	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 399-CP2	CPSC_V	399	CP2	Co-operative Work Placement IV	W1-2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 402-101	CPSC_V	402	101	Numerical Linear Algebra	W1	Investigation of the practical techniques of computational linear algebra. Orthogonal transformations and their application to the solution of linear equations, the eigenproblem, and linear least squares. Complete solution of the symmetric eigenproblem, including bisection and the QR method. Refinements of these techniques for sparse matrices. [3-0-0] Prerequisite: One of CPSC 302, CPSC 303, MATH 307.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPSC_V 404-101	CPSC_V	404	101	Advanced Relational Databases	W1	Physical database design, indexing, external mergesort, relational query processing and optimization, transaction processing, concurrency control, crash recovery, special topics. [3-0-0] Prerequisite: CPSC 304 and one of CPSC 213, CPSC 261, CPEN 212.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CPSC_V 404-201	CPSC_V	404	201	Advanced Relational Databases	W2	Physical database design, indexing, external mergesort, relational query processing and optimization, transaction processing, concurrency control, crash recovery, special topics. [3-0-0] Prerequisite: CPSC 304 and one of CPSC 213, CPSC 261, CPEN 212.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CPSC_V 404-202	CPSC_V	404	202	Advanced Relational Databases	W2	Physical database design, indexing, external mergesort, relational query processing and optimization, transaction processing, concurrency control, crash recovery, special topics. [3-0-0] Prerequisite: CPSC 304 and one of CPSC 213, CPSC 261, CPEN 212.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 406-201	CPSC_V	406	201	Computational Optimization	W2	Formulation and analysis of algorithms for continuous and discrete optimization problems; linear, nonlinear, network, dynamic, and integer optimization; large-scale problems; software packages and their implementation; duality theory and sensitivity. [3-0] Prerequisite: One of CPSC 302, CPSC 303, MATH 307.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPSC_V 410-201	CPSC_V	410	201	Advanced Software Engineering	W2	Specification, design, construction and validation of multi-version software systems. [3-0-0] Prerequisite: Either (a) CPSC 310 or (b) all of CPEN 321, CPEN 331.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
CPSC_V 411-201	CPSC_V	411	201	Introduction to Compiler Construction	W2	A practical introduction to lexical analysis, syntactic analysis, type-checking, code generation and optimization. This will be used to design and implement a compiler for a small language. [3-0-0] Prerequisite: All of CPSC 213, CPSC 221, CPSC 311.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 416-101	CPSC_V	416	101	Distributed Systems	W1	Concepts and design of distributed systems. Communication architecture and models for interprocess communication. Process migration, naming, distributed file systems, fault tolerance, and concurrency control. [3-0-0] Prerequisite: One of CPSC 313, CPEN 331 and one of CPSC 317, ELEC 331.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CPSC_V 416-201	CPSC_V	416	201	Distributed Systems	W2	Concepts and design of distributed systems. Communication architecture and models for interprocess communication. Process migration, naming, distributed file systems, fault tolerance, and concurrency control. [3-0-0] Prerequisite: One of CPSC 313, CPEN 331 and one of CPSC 317, ELEC 331.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
CPSC_V 416-202	CPSC_V	416	202	Distributed Systems	W2	Concepts and design of distributed systems. Communication architecture and models for interprocess communication. Process migration, naming, distributed file systems, fault tolerance, and concurrency control. [3-0-0] Prerequisite: One of CPSC 313, CPEN 331 and one of CPSC 317, ELEC 331.	In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.

CPSC_V 417-101	CPSC_V	417	101	Computer Networking	W2	Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, wired and wireless data communication. [3-0] Prerequisite: All of CPSC 313, CPSC 317 and one of STAT 200, STAT 201, STAT 241, STAT 251.	In Person Learning	Arranged	Arranged
CPSC_V 417-201	CPSC_V	417	201	Computer Networking	W2	Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, wired and wireless data communication. [3-0] Prerequisite: All of CPSC 313, CPSC 317 and one of STAT 200, STAT 201, STAT 241, STAT 251.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CPSC_V 418-101	CPSC_V	418	101	Parallel Computation	W1	Algorithms, architectures, and programming paradigms for parallel computation. Shared memory, message passing, and data parallel architectures and programming models. Parallel algorithms including reduce, scan, and sorting networks. Reasoning about the correctness of parallel programs. Performance analysis and measurement for parallel programs. [3-0-0] Prerequisite: CPSC 320 and one of CPSC 261, CPSC 313, CPEN 212, CPEN 411.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPSC_V 418-201	CPSC_V	418	201	Parallel Computation	W2	Algorithms, architectures, and programming paradigms for parallel computation. Shared memory, message passing, and data parallel architectures and programming models. Parallel algorithms including reduce, scan, and sorting networks. Reasoning about the correctness of parallel programs. Performance analysis and measurement for parallel programs. [3-0-0] Prerequisite: CPSC 320 and one of CPSC 261, CPSC 313, CPEN 212, CPEN 411.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 420-201	CPSC_V	420	201	Advanced Algorithms Design and Analysis	W2	The study of advanced topics in the design and analysis of algorithms and associated data structures. Topics include algorithms for graph-theoretic; algebraic and geometric problems; algorithms on nonsequential models; complexity issues; approximation algorithms. [3-0-0] Prerequisite: [CPSC320]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CPSC_V 421-101	CPSC_V	421	101	Introduction to Theory of Computing	W1	Characterizations of computability (using machines, languages and functions). Universality, equivalence and Church's thesis. Unsolvable problems. Restricted models of computation. Finite automata, grammars and formal languages. [3-0-0] Prerequisite: One of CPSC 320 or MATH 220 or MATH 226.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
CPSC_V 422-101	CPSC_V	422	101	Intelligent Systems	W1	Principles and techniques underlying the design, implementation and evaluation of intelligent computational systems. Applications of artificial intelligence to natural language understanding, image understanding and computer-based expert and advisor systems. Advanced symbolic programming methodology. [3-0-0] Prerequisite: CPSC 322.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CPSC_V 422-201	CPSC_V	422	201	Intelligent Systems	W2	Principles and techniques underlying the design, implementation and evaluation of intelligent computational systems. Applications of artificial intelligence to natural language understanding, image understanding and computer-based expert and advisor systems. Advanced symbolic programming methodology. [3-0-0] Prerequisite: CPSC 322.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CPSC_V 424-201	CPSC_V	424	201	Geometric Modelling	W2	Digital representation of curves and surfaces, including splines, subdivision surfaces and meshes. Principles, algorithms and mathematical foundations for geometry representation in computer graphics, computer vision, fabrication, CAD/CAM, and medical imaging. Algorithms for acquisition, creation, representation, and processing of 3D shapes. [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
CPSC_V 424-T2A	CPSC_V	424	T2A	Geometric Modelling	W2	Digital representation of curves and surfaces, including splines, subdivision surfaces and meshes. Principles, algorithms and mathematical foundations for geometry representation in computer graphics, computer vision, fabrication, CAD/CAM, and medical imaging. Algorithms for acquisition, creation, representation, and processing of 3D shapes. [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
CPSC_V 424-T2B	CPSC_V	424	T2B	Geometric Modelling	W2	Digital representation of curves and surfaces, including splines, subdivision surfaces and meshes. Principles, algorithms and mathematical foundations for geometry representation in computer graphics, computer vision, fabrication, CAD/CAM, and medical imaging. Algorithms for acquisition, creation, representation, and processing of 3D shapes. [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
CPSC_V 424-T2C	CPSC_V	424	T2C	Geometric Modelling	W2	Digital representation of curves and surfaces, including splines, subdivision surfaces and meshes. Principles, algorithms and mathematical foundations for geometry representation in computer graphics, computer vision, fabrication, CAD/CAM, and medical imaging. Algorithms for acquisition, creation, representation, and processing of 3D shapes. [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
CPSC_V 425-101	CPSC_V	425	101	Computer Vision	W1	Introduction to the processing and interpretation of images. Image sensing, sampling, and filtering. Algorithms for colour analysis, texture description, stereo imaging, motion interpretation, 3D shape recovery, and recognition. [3-0-0] Prerequisite: All of CPSC 221, MATH 200, MATH 221.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CPSC_V 425-102	CPSC_V	425	102	Computer Vision	W1	Introduction to the processing and interpretation of images. Image sensing, sampling, and filtering. Algorithms for colour analysis, texture description, stereo imaging, motion interpretation, 3D shape recovery, and recognition. [3-0-0] Prerequisite: All of CPSC 221, MATH 200, MATH 221.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CPSC_V 425-201	CPSC_V	425	201	Computer Vision	W2	Introduction to the processing and interpretation of images. Image sensing, sampling, and filtering. Algorithms for colour analysis, texture description, stereo imaging, motion interpretation, 3D shape recovery, and recognition. [3-0-0] Prerequisite: All of CPSC 221, MATH 200, MATH 221.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CPSC_V 425-202	CPSC_V	425	202	Computer Vision	W2	Introduction to the processing and interpretation of images. Image sensing, sampling, and filtering. Algorithms for colour analysis, texture description, stereo imaging, motion interpretation, 3D shape recovery, and recognition. [3-0-0] Prerequisite: All of CPSC 221, MATH 200, MATH 221.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
CPSC_V 426-201	CPSC_V	426	201	Computer Animation	W2	Motion in computer graphics for characters and their environments. Keyframing, inverse kinematics, particle systems, rigid body dynamics, contact and collision, controller-based active motion, motion capture. [3-0-0] Prerequisite: CPSC 314.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
CPSC_V 427-101	CPSC_V	427	101	Video Game Programming	W1	Video game programming techniques and technologies, including rendering, animation, interaction, game AI, real-time software development for games; start-to-finish simple video-game design and implementation. [3-0-1] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
CPSC_V 427-201	CPSC_V	427	201	Video Game Programming	W2	Video game programming techniques and technologies, including rendering, animation, interaction, game AI, real-time software development for games; start-to-finish simple video-game design and implementation. [3-0-1] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
CPSC_V 427-T1A	CPSC_V	427	T1A	Video Game Programming	W1	Video game programming techniques and technologies, including rendering, animation, interaction, game AI, real-time software development for games; start-to-finish simple video-game design and implementation. [3-0-1] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.

CPSC_V 427-T1B	CPSC_V	427		T1B	Video Game Programming	W1	Video game programming techniques and technologies, including rendering, animation, interaction, game AI, real-time software development for games; start-to-finish simple video-game design and implementation. [3-0-1] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
CPSC_V 427-T2A	CPSC_V	427		T2A	Video Game Programming	W2	Video game programming techniques and technologies, including rendering, animation, interaction, game AI, real-time software development for games; start-to-finish simple video-game design and implementation. [3-0-1] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
CPSC_V 427-T2B	CPSC_V	427		T2B	Video Game Programming	W2	Video game programming techniques and technologies, including rendering, animation, interaction, game AI, real-time software development for games; start-to-finish simple video-game design and implementation. [3-0-1] Prerequisite: CPSC 221 and one of MATH 200, MATH 217, MATH 226, MATH 253 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
CPSC_V 430-101	CPSC_V	430		101	Computers and Society	W1	Impact of computer technology on society; historical perspectives; social and economic consequences of large-scale information processing systems and automatic control; legal and ethical problems in computer applications. Computers and the individual: machine versus human capabilities, fact and fancy; problematic interface between man and machine. [3-0-0] Prerequisite: 3 credits of Computer Science and at least third-year standing.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CPSC_V 430-102	CPSC_V	430		102	Computers and Society	W1	Impact of computer technology on society; historical perspectives; social and economic consequences of large-scale information processing systems and automatic control; legal and ethical problems in computer applications. Computers and the individual: machine versus human capabilities, fact and fancy; problematic interface between man and machine. [3-0-0] Prerequisite: 3 credits of Computer Science and at least third-year standing.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
CPSC_V 430-201	CPSC_V	430		201	Computers and Society	W2	Impact of computer technology on society; historical perspectives; social and economic consequences of large-scale information processing systems and automatic control; legal and ethical problems in computer applications. Computers and the individual: machine versus human capabilities, fact and fancy; problematic interface between man and machine. [3-0-0] Prerequisite: 3 credits of Computer Science and at least third-year standing.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CPSC_V 436-A_101	CPSC_V	436	A	A_101	Topics in Computer Science	W1	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
CPSC_V 436-C_101	CPSC_V	436	C	C_101	Topics in Computer Science	W1	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CPSC_V 436-C_201	CPSC_V	436	C	C_201	Topics in Computer Science	W2	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPSC_V 436-N_101	CPSC_V	436	N	N_101	Topics in Computer Science	W1	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CPSC_V 436-Q_101	CPSC_V	436	Q	Q_101	Topics in Computer Science	W1	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CPSC_V 436-R_101	CPSC_V	436	R	R_101	Topics in Computer Science	W1	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Arranged	Arranged
CPSC_V 436-R_201	CPSC_V	436	R	R_201	Topics in Computer Science	W2	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
CPSC_V 436-S_201	CPSC_V	436	S	S_201	Topics in Computer Science	W2	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Wed Fri	10:30 a.m. - 12:00 p.m.
CPSC_V 436-V_201	CPSC_V	436	V	V_201	Topics in Computer Science	W2	Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.	In Person Learning	Arranged	Arranged
CPSC_V 440-201	CPSC_V	440		201	Advanced Machine Learning	W2	Advanced machine learning techniques focusing on probabilistic models. Deep learning and differentiable programming, exponential families and Bayesian inference, probabilistic graphical models and other generative models, Monte Carlo and variational inference methods. [3-0-1] Prerequisite: All of CPSC 320, CPSC 340.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CPSC_V 440-T2A	CPSC_V	440		T2A	Advanced Machine Learning	W2	Advanced machine learning techniques focusing on probabilistic models. Deep learning and differentiable programming, exponential families and Bayesian inference, probabilistic graphical models and other generative models, Monte Carlo and variational inference methods. [3-0-1] Prerequisite: All of CPSC 320, CPSC 340.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
CPSC_V 440-T2B	CPSC_V	440		T2B	Advanced Machine Learning	W2	Advanced machine learning techniques focusing on probabilistic models. Deep learning and differentiable programming, exponential families and Bayesian inference, probabilistic graphical models and other generative models, Monte Carlo and variational inference methods. [3-0-1] Prerequisite: All of CPSC 320, CPSC 340.	In Person Learning	Tue	3:30 p.m. - 4:30 p.m.
CPSC_V 440-T2C	CPSC_V	440		T2C	Advanced Machine Learning	W2	Advanced machine learning techniques focusing on probabilistic models. Deep learning and differentiable programming, exponential families and Bayesian inference, probabilistic graphical models and other generative models, Monte Carlo and variational inference methods. [3-0-1] Prerequisite: All of CPSC 320, CPSC 340.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
CPSC_V 440-T2Z	CPSC_V	440		T2Z	Advanced Machine Learning	W2	Advanced machine learning techniques focusing on probabilistic models. Deep learning and differentiable programming, exponential families and Bayesian inference, probabilistic graphical models and other generative models, Monte Carlo and variational inference methods. [3-0-1] Prerequisite: All of CPSC 320, CPSC 340.	In Person Learning	Arranged	Arranged
CPSC_V 444-201	CPSC_V	444		201	Advanced Methods for Human Computer Interaction	W2	Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers. [2-2-2] Prerequisite: CPSC 344 and one of STAT 200, STAT 201, STAT 203, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, GEOG 374, KIN 206, KIN 371, POLI 380, PSYC 218, PSYC 278, PSYC 366, SOCI 328.	In Person Learning	Tue	3:30 p.m. - 5:30 p.m.

CPSC_V 444-L2A	CPSC_V	444	L2A	Advanced Methods for Human Computer Interaction	W2	Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers. [2-2-2] Prerequisite: CPSC 344 and one of STAT 200, STAT 201, STAT 203, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, GEOG 374, KIN 206, KIN 371, POLI 380, PSYC 218, PSYC 278, PSYC 366, SOCI 328.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.	
CPSC_V 444-L2B	CPSC_V	444	L2B	Advanced Methods for Human Computer Interaction	W2	Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers. [2-2-2] Prerequisite: CPSC 344 and one of STAT 200, STAT 201, STAT 203, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, GEOG 374, KIN 206, KIN 371, POLI 380, PSYC 218, PSYC 278, PSYC 366, SOCI 328.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.	
CPSC_V 444-L2C	CPSC_V	444	L2C	Advanced Methods for Human Computer Interaction	W2	Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers. [2-2-2] Prerequisite: CPSC 344 and one of STAT 200, STAT 201, STAT 203, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, GEOG 374, KIN 206, KIN 371, POLI 380, PSYC 218, PSYC 278, PSYC 366, SOCI 328.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.	
CPSC_V 447-101	CPSC_V	447	101	Introduction to Visualization	W1	Design and implementation of static and interactive visualizations. Selection of appropriate visualization methods for given combinations of data type and intended analysis task. Assessment of visual representations according to design and perceptual principles. [3-0-0] Prerequisite: One of CPSC 310, CPEN 321.	In Person Learning	Arranged	Arranged	
CPSC_V 447-201	CPSC_V	447	201	Introduction to Visualization	W2	Design and implementation of static and interactive visualizations. Selection of appropriate visualization methods for given combinations of data type and intended analysis task. Assessment of visual representations according to design and perceptual principles. [3-0-0] Prerequisite: One of CPSC 310, CPEN 321.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
CPSC_V 448-A_001	CPSC_V	448	A	A_001	Directed Studies in Computer Science	W1-2	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 448-A_101	CPSC_V	448	A	A_101	Directed Studies in Computer Science	W1	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 448-A_201	CPSC_V	448	A	A_201	Directed Studies in Computer Science	W2	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 448-B_101	CPSC_V	448	B	B_101	Directed Studies in Computer Science	W1-2	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 448-B_102	CPSC_V	448	B	B_102	Directed Studies in Computer Science	W1	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 448-B_202	CPSC_V	448	B	B_202	Directed Studies in Computer Science	W2	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 448-C_001	CPSC_V	448	C	C_001	Directed Studies in Computer Science	W1-2	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 448-C_003	CPSC_V	448	C	C_003	Directed Studies in Computer Science	W1	Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
CPSC_V 449-001	CPSC_V	449	001	Honours Thesis	W1-2	Under supervision of a faculty member, students investigate a research topic and prepare a thesis. Prerequisite: [CPSC349]	In Person Learning	Arranged	Arranged	
CPSC_V 490-A_201	CPSC_V	490	A	A_201	Student Directed Seminars	W2	Self-directed, collaborative studies, in a group-learning environment, initiated and coordinated by senior undergraduate students with the supervision of a faculty advisor. Course structure, enrolment and delivery methods will comply with the Handbook for Student Directed Seminars. [3-0-0]	In Person Learning	Arranged	Arranged
CPSC_V 491-201	CPSC_V	491	201	Interactive Digital Media Practicum	W2	Design and implementation of interactive digital media systems using modern processes and tools. Projects provided by external clients or vetted entrepreneurial pitches are developed by interdisciplinary teams composed of one CPSC 491 student and multiple Master of Digital Media students. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CPSC 221, CPSC 310, CPSC 344, and Third-year standing.	In Person Learning	Arranged	Arranged	
CPSC_V 499-611	CPSC_V	499	611	Co-operative Work Placement V	W1-2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 499-612	CPSC_V	499	612	Co-operative Work Placement V	W1	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	

CPSC_V 499-641	CPSC_V	499	641	Co-operative Work Placement V	W2	Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 501-101	CPSC_V	501	101	Theory of Automata, Formal Languages and Computability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
CPSC_V 507-101	CPSC_V	507	101	Software Engineering	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.	
CPSC_V 508-201	CPSC_V	508	201	Operating Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
CPSC_V 513-101	CPSC_V	513	101	Introduction to Formal Verification and Analysis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
CPSC_V 515-101	CPSC_V	515	101	Computational Robotics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 517-101	CPSC_V	517	101	Sparse Matrix Computation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
CPSC_V 522-2W1	CPSC_V	522	2W1	Artificial Intelligence II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 530-L_101	CPSC_V	530	L	L_101	Topics in Information Processing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 531-F_201	CPSC_V	531	F	F_201	Topics in Theory of Computation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
CPSC_V 532-C_201	CPSC_V	532	C	C_201	Topics in Artificial Intelligence	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 532-D_101	CPSC_V	532	D	D_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
CPSC_V 532-G_101	CPSC_V	532	G	G_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
CPSC_V 532-J_101	CPSC_V	532	J	J_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 532-N_101	CPSC_V	532	N	N_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 532-N_201	CPSC_V	532	N	N_201	Topics in Artificial Intelligence	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 532-P_101	CPSC_V	532	P	P_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CPSC_V 532-R_101	CPSC_V	532	R	R_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 532-S_201	CPSC_V	532	S	S_201	Topics in Artificial Intelligence	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 532-T_101	CPSC_V	532	T	T_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 532-V_201	CPSC_V	532	V	V_201	Topics in Artificial Intelligence	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
CPSC_V 532-W_201	CPSC_V	532	W	W_201	Topics in Artificial Intelligence	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

CPSC_V 532-Y_101	CPSC_V	532	Y	Y_101	Topics in Artificial Intelligence	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
CPSC_V 533-V_101	CPSC_V	533	V	V_101	Topics in Computer Graphics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:30 p.m. - 3:00 p.m.
CPSC_V 533-Y_101	CPSC_V	533	Y	Y_101	Topics in Computer Graphics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
CPSC_V 534-L_201	CPSC_V	534	L	L_201	Topics in Data Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 535-P_101	CPSC_V	535	P	P_101	Topics in Simulation and Optimization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CPSC_V 536-E_101	CPSC_V	536	E	E_101	Topics in Algorithms and Complexity	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 536-M_101	CPSC_V	536	M	M_101	Topics in Algorithms and Complexity	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
CPSC_V 536-R_101	CPSC_V	536	R	R_101	Topics in Algorithms and Complexity	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 536-R_201	CPSC_V	536	R	R_201	Topics in Algorithms and Complexity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 536-S_201	CPSC_V	536	S	S_201	Topics in Algorithms and Complexity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 536-W_201	CPSC_V	536	W	W_201	Topics in Algorithms and Complexity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
CPSC_V 538-G_101	CPSC_V	538	G	G_101	Topics in Computer Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
CPSC_V 538-H_101	CPSC_V	538	H	H_101	Topics in Computer Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
CPSC_V 538-M_101	CPSC_V	538	M	M_101	Topics in Computer Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
CPSC_V 538-P_201	CPSC_V	538	P	P_201	Topics in Computer Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
CPSC_V 538-S_201	CPSC_V	538	S	S_201	Topics in Computer Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
CPSC_V 539-B_101	CPSC_V	539	B	B_101	Topics in Programming Languages	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 539-G_201	CPSC_V	539	G	G_201	Topics in Programming Languages	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 539-L_101	CPSC_V	539	L	L_101	Topics in Programming Languages	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CPSC_V 539-S_201	CPSC_V	539	S	S_201	Topics in Programming Languages	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 539-W_201	CPSC_V	539	W	W_201	Topics in Programming Languages	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 543-201	CPSC_V	543		201	Physical User Interface Design and Evaluation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 543-L2A	CPSC_V	543		L2A	Physical User Interface Design and Evaluation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

CPSC_V 544-201	CPSC_V	544	201	Human Computer Interaction	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 544-L1B	CPSC_V	544	L1B	Human Computer Interaction	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 544-L2A	CPSC_V	544	L2A	Human Computer Interaction	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 544-L2B	CPSC_V	544	L2B	Human Computer Interaction	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 545-101	CPSC_V	545	101	Algorithms for Bioinformatics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.	
CPSC_V 548-001	CPSC_V	548	001	Directed Study	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 548-101	CPSC_V	548	101	Directed Study	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 548-201	CPSC_V	548	201	Directed Study	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 549-A_001	CPSC_V	549	A	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPSC_V 549-A_101	CPSC_V	549	A	A_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPSC_V 549-A_201	CPSC_V	549	A	A_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPSC_V 549-B_002	CPSC_V	549	B	B_002	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPSC_V 549-B_102	CPSC_V	549	B	B_102	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPSC_V 549-B_202	CPSC_V	549	B	B_202	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
CPSC_V 550-201	CPSC_V	550	201	Machine Learning II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.	
CPSC_V 550-T2A	CPSC_V	550	T2A	Machine Learning II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.	
CPSC_V 550-T2B	CPSC_V	550	T2B	Machine Learning II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:30 p.m. - 4:30 p.m.	
CPSC_V 550-T2C	CPSC_V	550	T2C	Machine Learning II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.	
CPSC_V 550-T2Z	CPSC_V	550	T2Z	Machine Learning II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
CPSC_V 554-A_101	CPSC_V	554	A	A_101	Topics in Human-Computer Interaction	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 554-C_201	CPSC_V	554	C	C_201	Topics in Human-Computer Interaction	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 554-K_101	CPSC_V	554	K	K_101	Topics in Human-Computer Interaction	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 554-Y_201	CPSC_V	554	Y	Y_201	Topics in Human-Computer Interaction	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

CPSC_V 589-001	CPSC_V	589	001	M.Sc. Major Essay	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 589-101	CPSC_V	589	101	M.Sc. Major Essay	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 589-201	CPSC_V	589	201	M.Sc. Major Essay	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CPSC_V 649-001	CPSC_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
CPSC_V 649-101	CPSC_V	649	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
CPSC_V 649-201	CPSC_V	649	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
CRWR_V 200-001	CRWR_V	200	001	Introduction to Creative Writing	W1	Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children's literature, and writing for new media. Manuscript submission is not required for admission.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CRWR_V 200-002	CRWR_V	200	002	Introduction to Creative Writing	W2	Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children's literature, and writing for new media. Manuscript submission is not required for admission.	Online Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CRWR_V 200-003	CRWR_V	200	003	Introduction to Creative Writing	W1	Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children's literature, and writing for new media. Manuscript submission is not required for admission.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CRWR_V 200-004	CRWR_V	200	004	Introduction to Creative Writing	W2	Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children's literature, and writing for new media. Manuscript submission is not required for admission.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CRWR_V 200-005	CRWR_V	200	005	Introduction to Creative Writing	W1	Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children's literature, and writing for new media. Manuscript submission is not required for admission.	Online Learning	Tue	2:00 p.m. - 5:00 p.m.
CRWR_V 200-006	CRWR_V	200	006	Introduction to Creative Writing	W2	Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children's literature, and writing for new media. Manuscript submission is not required for admission.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
CRWR_V 201-001	CRWR_V	201	001	Introduction to Writing Poetry	W1	An exploration of and practice in the writing of poetry, focusing on how a writer employs the technical elements of the craft of poetry. Manuscript submission not required for admission.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
CRWR_V 201-002	CRWR_V	201	002	Introduction to Writing Poetry	W2	An exploration of and practice in the writing of poetry, focusing on how a writer employs the technical elements of the craft of poetry. Manuscript submission not required for admission.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
CRWR_V 203-001	CRWR_V	203	001	Introduction to Writing for Children and Young Adults	W1	Techniques of and practice in creating, developing and writing for children and young adults. Manuscript submission is not required for admission.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CRWR_V 203-002	CRWR_V	203	002	Introduction to Writing for Children and Young Adults	W2	Techniques of and practice in creating, developing and writing for children and young adults. Manuscript submission is not required for admission.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
CRWR_V 205-001	CRWR_V	205	001	Introduction to Writing Creative Nonfiction	W1	An exploration of and practice in the writing of creative nonfiction, focusing on how a writer employs the technical elements of the craft of creative nonfiction. Manuscript submission not required for admission.	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.
CRWR_V 205-002	CRWR_V	205	002	Introduction to Writing Creative Nonfiction	W2	An exploration of and practice in the writing of creative nonfiction, focusing on how a writer employs the technical elements of the craft of creative nonfiction. Manuscript submission not required for admission.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
CRWR_V 206-001	CRWR_V	206	001	Introduction to Writing for the Screen	W1	Techniques of and practice in creating, developing, and writing a screenplay. Manuscript submission is not required for admission.	In Person Learning	Fri	2:00 p.m. - 3:30 p.m.
CRWR_V 206-002	CRWR_V	206	002	Introduction to Writing for the Screen	W2	Techniques of and practice in creating, developing, and writing a screenplay. Manuscript submission is not required for admission.	In Person Learning	Fri	2:00 p.m. - 3:30 p.m.
CRWR_V 208-001	CRWR_V	208	001	Introduction to Writing for Graphic Forms	W1	Techniques of and practice in creating, developing, and writing the graphic novel, manga, and other forms of illustrated writing. The ability to draw is not required. Manuscript submission is not required for admission.	In Person Learning	Tue	3:30 p.m. - 5:00 p.m.
CRWR_V 208-002	CRWR_V	208	002	Introduction to Writing for Graphic Forms	W2	Techniques of and practice in creating, developing, and writing the graphic novel, manga, and other forms of illustrated writing. The ability to draw is not required. Manuscript submission is not required for admission.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
CRWR_V 209-001	CRWR_V	209	001	Introduction to Writing Fiction	W1	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.

CRWR_V 209-002	CRWR_V	209	002	Introduction to Writing Fiction	W2	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission.	Online Learning	Tue	11:00 a.m. - 12:30 p.m.
CRWR_V 213-001	CRWR_V	213	001	Introduction to Writing for the New Media	W1	An exploration of and practice in writing for new media, including podcasting, blogging, and writing for websites, games, and online environments. Manuscript submission is not required for admission.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
CRWR_V 213-002	CRWR_V	213	002	Introduction to Writing for the New Media	W2	An exploration of and practice in writing for new media, including podcasting, blogging, and writing for websites, games, and online environments. Manuscript submission is not required for admission.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
CRWR_V 213-CAP	CRWR_V	213	CAP	Introduction to Writing for the New Media	W1	An exploration of and practice in writing for new media, including podcasting, blogging, and writing for websites, games, and online environments. Manuscript submission is not required for admission.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
CRWR_V 220-U_001	CRWR_V	220	U U_001	Introduction to Creative Writing with an Indigenous Focus	W2	Covers three genres from fiction, poetry, creative nonfiction, radio drama, radio feature, or stageplay.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CRWR_V 230-001	CRWR_V	230	001	Introduction to Writing for Comedic Forms	W2	An examination of and practice in creative writing in comedic forms, including stand-up, sketch, film, new media, and text. Manuscript submission not required for admission.	In Person Learning	Arranged	Arranged
CRWR_V 230-002	CRWR_V	230	002	Introduction to Writing for Comedic Forms	W2	An examination of and practice in creative writing in comedic forms, including stand-up, sketch, film, new media, and text. Manuscript submission not required for admission.	In Person Learning	Wed	5:00 p.m. - 6:30 p.m.
CRWR_V 301-002	CRWR_V	301	002	Intermediate Writing Poetry	W2	The writing of poetry in various forms using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 201.	In Person Learning	Arranged	Arranged
CRWR_V 301-LS1	CRWR_V	301	LS1	Intermediate Writing Poetry	W2	The writing of poetry in various forms using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 201.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CRWR_V 301-LS2	CRWR_V	301	LS2	Intermediate Writing Poetry	W2	The writing of poetry in various forms using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 201.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CRWR_V 301-LS3	CRWR_V	301	LS3	Intermediate Writing Poetry	W2	The writing of poetry in various forms using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 201.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CRWR_V 302-002	CRWR_V	302	002	Writing for Podcast	W2	Exploration of and practice in writing for podcast. Prerequisite: CRWR 213.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
CRWR_V 303-002	CRWR_V	303	002	Intermediate Writing for Children and Young Adults	W2	The writing of work for children and young adults in various forms using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 203.	In Person Learning	Arranged	Arranged
CRWR_V 303-LS1	CRWR_V	303	LS1	Intermediate Writing for Children and Young Adults	W2	The writing of work for children and young adults in various forms using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 203.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
CRWR_V 303-LS2	CRWR_V	303	LS2	Intermediate Writing for Children and Young Adults	W2	The writing of work for children and young adults in various forms using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 203.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
CRWR_V 305-002	CRWR_V	305	002	Intermediate Writing of Creative Nonfiction	W2	An exploration of and practice in the writing of creative non-fiction, covering four of the more basic forms of this genre: memoir, profile, commentary, and exposition. Manuscript submission is not required for admission. Prerequisite: CRWR 205.	In Person Learning	Arranged	Arranged
CRWR_V 305-LS1	CRWR_V	305	LS1	Intermediate Writing of Creative Nonfiction	W2	An exploration of and practice in the writing of creative non-fiction, covering four of the more basic forms of this genre: memoir, profile, commentary, and exposition. Manuscript submission is not required for admission. Prerequisite: CRWR 205.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
CRWR_V 305-LS2	CRWR_V	305	LS2	Intermediate Writing of Creative Nonfiction	W2	An exploration of and practice in the writing of creative non-fiction, covering four of the more basic forms of this genre: memoir, profile, commentary, and exposition. Manuscript submission is not required for admission. Prerequisite: CRWR 205.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
CRWR_V 306-002	CRWR_V	306	002	Intermediate Writing for the Screen	W2	An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.	In Person Learning	Arranged	Arranged
CRWR_V 306-FPR	CRWR_V	306	FPR	Intermediate Writing for the Screen	W2	An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
CRWR_V 306-LS1	CRWR_V	306	LS1	Intermediate Writing for the Screen	W2	An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
CRWR_V 306-LS2	CRWR_V	306	LS2	Intermediate Writing for the Screen	W2	An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
CRWR_V 307-001	CRWR_V	307	001	Intermediate Writing for the Stage	W2	An exploration of practice in the writing of the one-act stage play, focusing on how a writer employs the technical elements of the craft of this genre. Manuscript submission is not required for admission. Prerequisite: CRWR 200.	In Person Learning	Arranged	Arranged

CRWR_V 307-002	CRWR_V	307	002	Intermediate Writing for the Stage	W2	An exploration of practice in the writing of the one-act stage play, focusing on how a writer employs the technical elements of the craft of this genre. Manuscript submission is not required for admission. Prerequisite: CRWR 200.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
CRWR_V 308-001	CRWR_V	308	001	Intermediate Writing for Graphic Forms	W1	The writing of graphica (comics, manga and graphic novels), using a combination of workshoping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 208.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.	
CRWR_V 309-001	CRWR_V	309	001	Intermediate Writing Fiction	W1	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.	Online Learning	Arranged	Arranged	
CRWR_V 309-002	CRWR_V	309	002	Intermediate Writing Fiction	W2	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.	In Person Learning	Arranged	Arranged	
CRWR_V 309-LS1	CRWR_V	309	LS1	Intermediate Writing Fiction	W1	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
CRWR_V 309-LS2	CRWR_V	309	LS2	Intermediate Writing Fiction	W1	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
CRWR_V 309-LS3	CRWR_V	309	LS3	Intermediate Writing Fiction	W2	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
CRWR_V 309-LS4	CRWR_V	309	LS4	Intermediate Writing Fiction	W2	An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
CRWR_V 310-001	CRWR_V	310	001	Video Game Writing and Narrative	W1	Narrative design and writing for video games. Prerequisite: CRWR 200.	In Person Learning	Tue	5:00 p.m. - 6:30 p.m.	
CRWR_V 311-002	CRWR_V	311	002	Intermediate Writing for Lyric Forms	W2	Techniques of and practice in writing for lyric forms, including song lyrics, lyrical narratives, and libretti. Manuscript submission is not required for admission. Prerequisite: One of CRWR 200, CRWR 202.	In Person Learning	Tue	5:30 p.m. - 8:30 p.m.	
CRWR_V 312-001	CRWR_V	312	001	Interactive Storytelling	W1	Origin, theory and practice of interactive story forms. Exploring structural links between interactive theatre, gaming, and extended (virtual, mixed, and augmented) reality. Prerequisite: One of CRWR 213 or B.M.S. student with 3rd year standing or higher.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.	
CRWR_V 316-001	CRWR_V	316	001	Intermediate Writing for Television	W1	Elements of episodic and serialized comedic and dramatic television writing with writing practice applied to primary formats and genres. Prerequisite: CRWR 206.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
CRWR_V 319-001	CRWR_V	319	001	Writing Genre Fiction	W1	Exploration and practice in writing major genres of genre fiction, including fantasy, science fiction, romance, crime, horror, and historical fiction. Prerequisite: All of CRWR 200, CRWR 209.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
CRWR_V 330-001	CRWR_V	330	001	Intermediate Comedic Forms	W1	Contemporary and historical comedic writing in a variety of forms. Emphasis on critical analysis and creative writing of comedic works, and changes in the comedic landscape. Recommended: CRWR 200 Prerequisite: CRWR 230.	In Person Learning	Wed	4:00 p.m. - 5:30 p.m.	
CRWR_V 351-T_001	CRWR_V	351	T	T_001	Intermediate Poetry Workshop	W1	An intermediate level workshop class in writing poetry. Manuscript submission is not required for admission. Prerequisite: CRWR 301.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
CRWR_V 353-U_002	CRWR_V	353	U	U_002	Intermediate Children and Young Adult Writing Workshop	W2	An intermediate level workshop class in writing for children and young adults. Manuscript submission is not required for admission. Prerequisite: CRWR 303.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
CRWR_V 356-U_002	CRWR_V	356	U	U_002	Intermediate Screenplay Workshop	W2	An intermediate level workshop class in writing for the screen. Manuscript submission is not required for admission. Prerequisite: CRWR 306.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CRWR_V 358-U_002	CRWR_V	358	U	U_002	Intermediate Graphic Forms Workshop	W2	An intermediate level workshop class in writing for graphic forms. The ability to draw is not required. Manuscript submission is not required for admission. Prerequisite: CRWR 308.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
CRWR_V 359-T_001	CRWR_V	359	T	T_001	Intermediate Fiction Workshop	W1	An intermediate level workshop class in writing of fiction. Manuscript submission is not required for admission. Prerequisite: CRWR 309.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
CRWR_V 359-U_002	CRWR_V	359	U	U_002	Intermediate Fiction Workshop	W2	An intermediate level workshop class in writing of fiction. Manuscript submission is not required for admission. Prerequisite: CRWR 309.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CRWR_V 401-T_001	CRWR_V	401	T	T_001	Writing Poetry I	W1	A workshop class in the writing of poetry. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CRWR_V 401-U_002	CRWR_V	401	U	U_002	Writing Poetry I	W2	A workshop class in the writing of poetry. Prerequisite: Restricted to Majors in Creative Writing.	Online Learning	Thu	2:00 p.m. - 4:00 p.m.
CRWR_V 402-U_002	CRWR_V	402	U	U_002	Writing for New Media I	W2	An advanced workshop class in writing for new media. Restricted to Majors in Creative Writing.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.

CRWR_V 403-T_001	CRWR_V	403	T	T_001	Writing for Children and Young Adults I	W1	A workshop class in writing for Children and Young Adults. Prerequisite: Restricted to Majors in Creative Writing.	Online Learning	Thu	2:00 p.m. - 4:00 p.m.
CRWR_V 405-T_001	CRWR_V	405	T	T_001	Writing Creative Nonfiction I	W1	A workshop class in writing creative nonfiction, focused on some of the more popular forms of creative nonfiction: autobiography, rhetoric (commentary), literary journalism, and the personal essay. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
CRWR_V 406-T_001	CRWR_V	406	T	T_001	Writing for the Screen I	W1	A workshop class in writing for the screen. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
CRWR_V 406-U_004	CRWR_V	406	U	U_004	Writing for the Screen I	W2	A workshop class in writing for the screen. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CRWR_V 407-T_001	CRWR_V	407	T	T_001	Writing of Drama for the Stage I	W1	A workshop class in writing of drama for the stage. Studio work is required, and some plays may be given a live stage production in Brave New Play Rites (adjudication process involved). Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
CRWR_V 408-T_001	CRWR_V	408	T	T_001	Writing for Graphic Forms I	W1	A workshop class in the writing of graphic novel, manga, and other forms of illustrated writing. The ability to draw is not required. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CRWR_V 409-T_001	CRWR_V	409	T	T_001	Writing Fiction I	W1	A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.	Online Learning	Fri	2:00 p.m. - 4:00 p.m.
CRWR_V 409-T_003	CRWR_V	409	T	T_003	Writing Fiction I	W1	A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
CRWR_V 409-U_002	CRWR_V	409	U	U_002	Writing Fiction I	W2	A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.	Online Learning	Fri	2:00 p.m. - 4:00 p.m.
CRWR_V 409-U_005	CRWR_V	409	U	U_005	Writing Fiction I	W2	A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
CRWR_V 410-T_001	CRWR_V	410	T	T_001	Video Game Writing	W1	A workshop class on writing for video games. Restricted to Creative Writing majors.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
CRWR_V 410-U_002	CRWR_V	410	U	U_002	Video Game Writing	W2	A workshop class on writing for video games. Restricted to Creative Writing majors.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
CRWR_V 415-U_002	CRWR_V	415	U	U_002	Workshop in Literary Translation I	W2	A workshop class in literary translation. Restricted to Majors in Creative Writing. Prerequisite: Proficiency in a language other than English.	In Person Learning	Arranged	Arranged
CRWR_V 416-T_001	CRWR_V	416	T	T_001	Writing for Television I	W1	A workshop class in writing for television. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Arranged	Arranged
CRWR_V 416-U_002	CRWR_V	416	U	U_002	Writing for Television I	W2	A workshop class in writing for television. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
CRWR_V 419-T_001	CRWR_V	419	T	T_001	Writing Speculative Fiction	W1	Workshop-based class focused on writing speculative fiction, including fantasy, science fiction, and horror; emphasis on reading various genres and peer feedback. Restricted to Creative Writing majors.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
CRWR_V 419-U_002	CRWR_V	419	U	U_002	Writing Speculative Fiction	W2	Workshop-based class focused on writing speculative fiction, including fantasy, science fiction, and horror; emphasis on reading various genres and peer feedback. Restricted to Creative Writing majors.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
CRWR_V 420-T_001	CRWR_V	420	T	T_001	Indigenous Writing	W1	Advanced study of contemporary Indigenous writing in North America across genres focusing on the production of critical and creative writing about coloniality, race, history, and identity. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CRWR_V 425-U_002	CRWR_V	425	U	U_002	Climate Writing	W2	Workshop-based class focused on writing related to climate change and environmental issues; emphasis on reading various genres and peer feedback. Restricted to Creative Writing majors. A maximum of 6 credits is permitted between CRWR 425 and 525.	In Person Learning	Arranged	Arranged
CRWR_V 430-001	CRWR_V	430		001	Preparation for a Career in Writing	W1	Pass/Fail. Credit will be granted for only one of CRWR 430 or CRWR 530. Restricted to Majors in Creative Writing.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
CRWR_V 431-001	CRWR_V	431		001	Advanced Comedic Forms	W1	A workshop class exploring comedic writing in varied forms including film and television, prose and poetry, non-fiction, and new media. This course is restricted to students in the CRWR BFA program.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
CRWR_V 440-T_001	CRWR_V	440	T	T_001	Interdisciplinary Projects	W1	Group projects and workshops with students majoring in other creative arts. Prerequisite: Permission of instructor. Credit will be granted for only one of CRWR 440, THTR 469, VISA 469, MUSC 469. Equivalency: THTR 469, VISA 469, MUSC 469	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CRWR_V 451-T_001	CRWR_V	451	T	T_001	Writing Poetry II	W1	An advanced workshop class in writing poetry. Restricted to Majors in Creative Writing. Prerequisite: CRWR 401.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.

CRWR_V 453-U_002	CRWR_V	453	U	U_002	Writing for Children and Young Adults II	W2	An advanced workshop class in writing for children and young adults. Restricted to Majors in Creative Writing. Prerequisite: CRWR 403.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CRWR_V 455-U_002	CRWR_V	455	U	U_002	Writing Creative Nonfiction II	W2	An advanced workshop class focusing on memoir, biography, rhetoric, literary journalism, the personal essay, and some hybrid forms of creative nonfiction. Includes instruction in researching and interviewing techniques. Restricted to Majors in Creative Writing. Prerequisite: CRWR 405.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
CRWR_V 456-U_002	CRWR_V	456	U	U_002	Writing for the Screen II	W2	An advanced workshop class in writing for the screen. Restricted to Majors in Creative Writing. Prerequisite: CRWR 406.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
CRWR_V 457-U_002	CRWR_V	457	U	U_002	Writing of Drama for the Stage II	W2	An advanced workshop class in writing drama for the stage. Studio work is required. Assumes a greater level of experience in writing drama for the stage than CRWR 407. Prerequisite: Restricted to Majors in Creative Writing.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
CRWR_V 458-U_002	CRWR_V	458	U	U_002	Writing for Graphic Forms II	W2	An advanced workshop class in writing for graphic forms. The ability to draw is not required. Restricted to Majors in Creative Writing. Prerequisite: CRWR 408.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
CRWR_V 459-U_002	CRWR_V	459	U	U_002	Writing Fiction II	W2	An advanced workshop class in writing fiction. Restricted to Majors in Creative Writing. Prerequisite: CRWR 409.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
CRWR_V 501-T_001	CRWR_V	501	T	T_001	Advanced Writing of Poetry I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
CRWR_V 501-T_D01	CRWR_V	501	T	T_D01	Advanced Writing of Poetry I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 501-U_002	CRWR_V	501	U	U_002	Advanced Writing of Poetry I	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	12:00 p.m. - 2:00 p.m.
CRWR_V 501-U_D02	CRWR_V	501	U	U_D02	Advanced Writing of Poetry I	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 503-T_001	CRWR_V	503	T	T_001	Advanced Writing for Children I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CRWR_V 503-T_D01	CRWR_V	503	T	T_D01	Advanced Writing for Children I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 503-U_002	CRWR_V	503	U	U_002	Advanced Writing for Children I	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	2:00 p.m. - 4:00 p.m.
CRWR_V 505-T_001	CRWR_V	505	T	T_001	Advanced Writing of Creative Non-Fiction I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
CRWR_V 505-T_D01	CRWR_V	505	T	T_D01	Advanced Writing of Creative Non-Fiction I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 505-U_002	CRWR_V	505	U	U_002	Advanced Writing of Creative Non-Fiction I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CRWR_V 505-U_D02	CRWR_V	505	U	U_D02	Advanced Writing of Creative Non-Fiction I	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 506-T_001	CRWR_V	506	T	T_001	Advanced Writing of Drama for Screen I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
CRWR_V 506-T_D01	CRWR_V	506	T	T_D01	Advanced Writing of Drama for Screen I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 506-U_002	CRWR_V	506	U	U_002	Advanced Writing of Drama for Screen I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CRWR_V 506-U_D02	CRWR_V	506	U	U_D02	Advanced Writing of Drama for Screen I	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 507-T_001	CRWR_V	507	T	T_001	Advanced Writing of Drama for the Stage I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
CRWR_V 507-T_D01	CRWR_V	507	T	T_D01	Advanced Writing of Drama for the Stage I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged

CRWR_V 507-U_002	CRWR_V	507	U	U_002	Advanced Writing of Drama for the Stage I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
CRWR_V 507-U_D02	CRWR_V	507	U	U_D02	Advanced Writing of Drama for the Stage I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CRWR_V 508-T_D01	CRWR_V	508	T	T_D01	Advanced Writing for Graphic Forms I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 509-T_001	CRWR_V	509	T	T_001	Advanced Writing of Fiction I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	2:00 p.m. - 4:00 p.m.
CRWR_V 509-T_003	CRWR_V	509	T	T_003	Advanced Writing of Fiction I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
CRWR_V 509-T_D01	CRWR_V	509	T	T_D01	Advanced Writing of Fiction I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 509-T_D03	CRWR_V	509	T	T_D03	Advanced Writing of Fiction I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 509-U_002	CRWR_V	509	U	U_002	Advanced Writing of Fiction I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
CRWR_V 509-U_D02	CRWR_V	509	U	U_D02	Advanced Writing of Fiction I	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 511-U_002	CRWR_V	511	U	U_002	Advanced Writing for Lyric Forms I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
CRWR_V 514-T_001	CRWR_V	514	T	T_001	Advanced Writing for Television I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
CRWR_V 514-T_D01	CRWR_V	514	T	T_D01	Advanced Writing for Television I	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 514-U_002	CRWR_V	514	U	U_002	Advanced Writing for Television I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
CRWR_V 514-U_D02	CRWR_V	514	U	U_D02	Advanced Writing for Television I	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 519-T_001	CRWR_V	519	T	T_001	Writing Speculative Fiction	W1	Advanced writing of speculative fiction, including fantasy, science fiction, magical realism, horror, folk tales, and weird stories. Emphasis on reading examples from the subgenres and peer feedback. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
CRWR_V 519-T_D01	CRWR_V	519	T	T_D01	Writing Speculative Fiction	W1	Advanced writing of speculative fiction, including fantasy, science fiction, magical realism, horror, folk tales, and weird stories. Emphasis on reading examples from the subgenres and peer feedback. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 519-U_002	CRWR_V	519	U	U_002	Writing Speculative Fiction	W2	Advanced writing of speculative fiction, including fantasy, science fiction, magical realism, horror, folk tales, and weird stories. Emphasis on reading examples from the subgenres and peer feedback. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
CRWR_V 519-U_D02	CRWR_V	519	U	U_D02	Writing Speculative Fiction	W2	Advanced writing of speculative fiction, including fantasy, science fiction, magical realism, horror, folk tales, and weird stories. Emphasis on reading examples from the subgenres and peer feedback. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 521-T_001	CRWR_V	521	T	T_001	Indigenous Writing	W1	Advanced study of contemporary Indigenous writing in North America across genres focusing on the production of critical and creative writing about coloniality, race, history, and identity. A maximum of 6 credits is permitted from CRWR 420, CRWR 521. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CRWR_V 525-T_001	CRWR_V	525	T	T_001	Climate Writing	W1	Advanced workshop-based class focused on writing related to climate change and environmental issues; emphasis on reading various genres and peer feedback. Restricted to graduate students in the MFA Program in Creative Writing. A maximum of 6 credits is permitted between CRWR 425 and 525. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CRWR_V 525-U_002	CRWR_V	525	U	U_002	Climate Writing	W2	Advanced workshop-based class focused on writing related to climate change and environmental issues; emphasis on reading various genres and peer feedback. Restricted to graduate students in the MFA Program in Creative Writing. A maximum of 6 credits is permitted between CRWR 425 and 525. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
CRWR_V 530-001	CRWR_V	530		001	Preparation for a Career in Writing	W1	Pass/Fail. Credit will be granted for only one of CRWR 430 or CRWR 530.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.

CRWR_V 530-D02	CRWR_V	530		D02	Preparation for a Career in Writing	W2	Pass/Fail. Credit will be granted for only one of CRWR 430 or CRWR 530.	Online Learning	Arranged	Arranged
CRWR_V 550-U_D02	CRWR_V	550	U	U_D02	Teaching Creative Writing	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 558-U_002	CRWR_V	558	U	U_002	Advanced Writing for Graphic Forms II	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 570-U_002	CRWR_V	570	U	U_002	Advanced Special Projects in Creative Writing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
CRWR_V 599-100	CRWR_V	599		100	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CRWR_V 599-200	CRWR_V	599		200	Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
CRWR_V 599-D20	CRWR_V	599		D20	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CRWR_V 599-D21	CRWR_V	599		D21	Thesis	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
CSIS_V 200-101	CSIS_V	200		101	Critical Engagements in Sexuality Studies	W1	Introductory survey to sexuality studies that emphasizes how sexuality intersects with race, gender, class, ability, and geography. Recommended pre-requisite: GRSJ 101.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
CSIS_V 300-A_201	CSIS_V	300	A	A_201	Introduction to Critical Studies in Sexuality	W2	A multi-disciplinary course which provides an introduction to the study of sexuality, including lesbian, gay, bisexual, heterosexual, and transgender issues and related topics.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
CSIS_V 301-101	CSIS_V	301		101	Introduction to Trans* Studies	W1	How race, citizenship, gender, sexuality, culture and dis/ability are materially and socially constructed together to give meaning to the category trans*. (Trans*: transgender, transsexual, gender variant and other articulations.) Recommended pre-requisite: GRSJ 101.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
CSIS_V 450-B_201	CSIS_V	450	B	B_201	Topics in Critical Studies in Sexuality	W2	A thematic course, which explores current questions and issues in relation to the study of sexuality. Topics may vary from year to year.	In Person Learning	Mon	12:00 p.m. - 3:00 p.m.
CSIS_V 490-A_101	CSIS_V	490	A	A_101	Directed Topics	W1	Designed to allow a student to develop an individual course of study in a specific area as approved by a faculty member affiliated with the CSIS program.	In Person Learning	Arranged	Arranged
CSIS_V 490-B_201	CSIS_V	490	B	B_201	Directed Topics	W2	Designed to allow a student to develop an individual course of study in a specific area as approved by a faculty member affiliated with the CSIS program.	In Person Learning	Arranged	Arranged
CSIS_V 490-C_001	CSIS_V	490	C	C_001	Directed Topics	W1-2	Designed to allow a student to develop an individual course of study in a specific area as approved by a faculty member affiliated with the CSIS program.	In Person Learning	Arranged	Arranged
CSIS_V 500-C_201	CSIS_V	500	C	C_201	Critical Studies in Sexuality: Multi-disciplinary Approaches	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 3:00 p.m.
DANI_V 100-101	DANI_V	100		101	Elementary Danish I	W1	Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Danish courses (DANI 100 and DANI 110), but are welcome to join the intermediate courses (DANI 200 and DANI 210).	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
DANI_V 110-201	DANI_V	110		201	Elementary Danish II	W2	Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Danish courses (DANI 100 and DANI 110), but are welcome to join the intermediate courses (DANI 200 and DANI 210).	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
DANI_V 200-101	DANI_V	200		101	Intermediate Danish I	W1		In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
DANI_V 210-201	DANI_V	210		201	Intermediate Danish II	W2		In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
DENT_V 410-001	DENT_V	410		001	Dentistry I: Foundations of Clinical Dentistry	W1-2	Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, inter-professional education and the social contract, communication skills, and critical evaluation of the literature. Begin to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 5:00 p.m.
DENT_V 410-DMO	DENT_V	410		DMO	Dentistry I: Foundations of Clinical Dentistry	W1	Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, inter-professional education and the social contract, communication skills, and critical evaluation of the literature. Begin to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.



DENT_V 420-RPD	DENT_V	420	RPD	Dentistry II: Basic Clinical Dentistry	W2	Continued exposure to body systems and the supporting biomedical sciences with applications in dental clinical sciences, integrated into small group learning, classroom, laboratory, and community settings utilizing technology; continued engagement in professionalism, ethics and communication skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT 410.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
DENT_V 430-001	DENT_V	430	001	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Arranged	Arranged
DENT_V 430-01	DENT_V	430	01	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Arranged	Arranged
DENT_V 430-DG1	DENT_V	430	DG1	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
DENT_V 430-EDE	DENT_V	430	EDE	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
DENT_V 430-END	DENT_V	430	END	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Fri	2:00 p.m. - 3:30 p.m.
DENT_V 430-IGP	DENT_V	430	IGP	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.
DENT_V 430-NMO	DENT_V	430	NMO	Dentistry III: Intermediate Clinical Dentistry	W1	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Arranged	Arranged
DENT_V 430-OMF	DENT_V	430	OMF	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
DENT_V 430-OMS	DENT_V	430	OMS	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
DENT_V 430-ORT	DENT_V	430	ORT	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Fri	10:00 a.m. - 12:30 p.m.
DENT_V 430-OSU	DENT_V	430	OSU	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Fri	8:00 a.m. - 11:30 a.m.
DENT_V 430-PED	DENT_V	430	PED	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
DENT_V 430-PER	DENT_V	430	PER	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
DENT_V 430-PM1	DENT_V	430	PM1	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Thu	9:30 a.m. - 11:30 a.m.
DENT_V 430-PMI	DENT_V	430	PMI	Dentistry III: Intermediate Clinical Dentistry	W1	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Thu	8:30 a.m. - 9:00 a.m.
DENT_V 430-RST	DENT_V	430	RST	Dentistry III: Intermediate Clinical Dentistry	W1-2	A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. Students function as team members in clinical group practices with individual progression through the Clinical Clerkships. Prerequisite: DENT420	In Person Learning	Fri	8:00 a.m. - 11:00 a.m.
DENT_V 440-001	DENT_V	440	001	Dentistry IV: Complex Clinical Dentistry	W1-2	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Arranged	Arranged
DENT_V 440-DGE	DENT_V	440	DGE	Dentistry IV: Complex Clinical Dentistry	W1-2	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Mon	8:00 a.m. - 9:00 a.m.
DENT_V 440-END	DENT_V	440	END	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Fri	11:30 a.m. - 12:30 p.m.
DENT_V 440-IGP	DENT_V	440	IGP	Dentistry IV: Complex Clinical Dentistry	W1-2	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
DENT_V 440-NMO	DENT_V	440	NMO	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Fri (Alternate weeks)	3:00 p.m. - 7:00 p.m.

DENT_V 440-OMF	DENT_V	440	OMF	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Fri	8:00 a.m. - 12:30 p.m.
DENT_V 440-OMS	DENT_V	440	OMS	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Fri	8:00 a.m. - 12:30 p.m.
DENT_V 440-ORT	DENT_V	440	ORT	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
DENT_V 440-OSU	DENT_V	440	OSU	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Thu	8:00 a.m. - 10:00 a.m.
DENT_V 440-PED	DENT_V	440	PED	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
DENT_V 440-PER	DENT_V	440	PER	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
DENT_V 440-PM2	DENT_V	440	PM2	Dentistry IV: Complex Clinical Dentistry	W1	A continuing integrated, multi-disciplinary course with ongoing participation in clinical group practices and individual progression through the Clinical Clerkships and community service learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: DENT430	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
DENT_V 504-001	DENT_V	504	001	Endodontic Microsurgery	W1-2	Treatment planning, instruments, techniques, materials, prognosis, and evaluation of results. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading. [1-1-0]	In Person Learning	Arranged	Arranged
DENT_V 504-002	DENT_V	504	002	Endodontic Microsurgery	W1-2	Treatment planning, instruments, techniques, materials, prognosis, and evaluation of results. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading. [1-1-0]	In Person Learning	Arranged	Arranged
DENT_V 505-001	DENT_V	505	001	Dental Traumatology	W1-2	Dental trauma and tooth resorptions: etiology, pathogenesis, epidemiology, diagnosis, and treatment. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading. [1-1-0]	In Person Learning	Arranged	Arranged
DENT_V 505-002	DENT_V	505	002	Dental Traumatology	W1-2	Dental trauma and tooth resorptions: etiology, pathogenesis, epidemiology, diagnosis, and treatment. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading. [1-1-0]	In Person Learning	Arranged	Arranged
DENT_V 508-001	DENT_V	508	001	Public Health Rotations I	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DENT 506, DENT 507.	In Person Learning	Arranged	Arranged
DENT_V 510-001	DENT_V	510	001	Pediatric Dentistry Literature Review I	W1-2	Continues in year 2. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 510-002	DENT_V	510	002	Pediatric Dentistry Literature Review I	W1-2	Continues in year 2. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 511-001	DENT_V	511	001	Pediatric Dentistry Literature Review II	W1	Continues in year 3. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 511-002	DENT_V	511	002	Pediatric Dentistry Literature Review II	W1-2	Continues in year 3. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 512-001	DENT_V	512	001	Pediatric Dentistry Literature Review III	W1-2	Continues in year 3. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 513-001	DENT_V	513	001	The Pediatric Patient I	W1-2	Continues in year 2. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 514-001	DENT_V	514	001	The Pediatric Patient II	W1-2	Continues in year 3. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 515-001	DENT_V	515	001	The Pediatric Patient III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 516-001	DENT_V	516	001	Pediatric Dentistry Case Review and Treatment Planning I	W1-2	Continues in year 2. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 517-001	DENT_V	517	001	Pediatric Dentistry Case Review and Treatment Planning II	W1-2	Continues in year 3. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 518-001	DENT_V	518	001	Pediatric Dentistry Case Review and Treatment Planning III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

DENT_V 523-001	DENT_V	523	001	Oral Medicine II	W1-2	This course is not eligible for Credit/D/Fail grading. [0-6-3]	In Person Learning	Arranged	Arranged
DENT_V 524-001	DENT_V	524	001	Craniofacial Growth and Development	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 525-001	DENT_V	525	001	Prosthodontic Literature Review I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 526-001	DENT_V	526	001	Prosthodontic Literature Review II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 527-001	DENT_V	527	001	Prosthodontic Treatment Planning and Outcomes Seminars I	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 528-001	DENT_V	528	001	Prosthodontic Treatment Planning and Outcomes Seminars II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 529-001	DENT_V	529	001	Prosthodontic Treatment Planning and Outcomes Seminars III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 530-001	DENT_V	530	001	Maxillofacial Prosthodontics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 531-001	DENT_V	531	001	Biomaterials	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 532-001	DENT_V	532	001	Prosthodontics I	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 533-001	DENT_V	533	001	Prosthodontics II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 539-001	DENT_V	539	001	Statistical Methods	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 540-001	DENT_V	540	001	Research Methods	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 542-001	DENT_V	542	001	Oral Cell Biology and Biochemistry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
DENT_V 543-001	DENT_V	543	001	Advanced Occlusion and Articulation	W2	This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Arranged	Arranged
DENT_V 543-002	DENT_V	543	002	Advanced Occlusion and Articulation	W1-2	This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Arranged	Arranged
DENT_V 544-001	DENT_V	544	001	Oral Microbiology and Immunology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 555-001	DENT_V	555	001	Oral Pathology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 556-001	DENT_V	556	001	Oral Radiology	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 561-A_100	DENT_V	561	A	A_100 Directed Studies in Dental Sciences	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 561-B_200	DENT_V	561	B	B_200 Directed Studies in Dental Sciences	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 561-C_003	DENT_V	561	C	C_003 Directed Studies in Dental Sciences	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 561-C_004	DENT_V	561	C	C_004 Directed Studies in Dental Sciences	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

DENT_V 561-D_102	DENT_V	561	D	D_102	Directed Studies in Dental Sciences	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.
DENT_V 565-001	DENT_V	565		001	Biomechanics of Craniofacial Orthopedics and Orthodontics I	W1-2	Continues in second year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 566-001	DENT_V	566		001	Biomechanics of Craniofacial Orthopedics and Orthodontics II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 567-001	DENT_V	567		001	Orthodontic and Craniofacial Orthopedic Patient Care I	W1-2	Continues in second year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 568-001	DENT_V	568		001	Orthodontic and Craniofacial Orthopedic Patient Care II	W1-2	Continues in third year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 569-001	DENT_V	569		001	Orthodontic and Craniofacial Orthopedic Patient Care III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 570-001	DENT_V	570		001	Periodontal Case Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
DENT_V 572-A_001	DENT_V	572	A	A_001	Literature Review in Periodontics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 573-A_001	DENT_V	573	A	A_001	Literature Review in Periodontics II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 574-001	DENT_V	574		001	Periodontic Treatment Planning Seminars	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 575-001	DENT_V	575		001	Implant Therapy	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 575-003	DENT_V	575		003	Implant Therapy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 578-001	DENT_V	578		001	Endodontic Literature Review I	W1-2	Dental anatomy, morphology, endodontic instruments, diagnosis and differential diagnosis, etiology and pathogenesis of endodontic infections, and strategies of infection control. This course is not eligible for Credit/D/Fail grading. [2-0-0]	In Person Learning	Arranged	Arranged
DENT_V 584-001	DENT_V	584		001	Endodontic Literature Review II	W1-2	Endodontic epidemiology, materials, prognosis of treatment, geriatric endodontics, complications, treatment resistant infections, and endo-perio lesions. This course is not eligible for Credit/D/Fail grading. [2-0-0]	In Person Learning	Arranged	Arranged
DENT_V 591-001	DENT_V	591		001	Endodontic Case Management I	W1-2	Modern endodontic technology and clinical endodontics. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading. [1-1-0]	In Person Learning	Arranged	Arranged
DENT_V 592-001	DENT_V	592		001	Endodontic Case Management II	W1-2	Modern endodontic technology and clinical endodontics. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading. [1-1-0]	In Person Learning	Arranged	Arranged
DENT_V 594-001	DENT_V	594		001	Endodontic Case Review and Treatment Planning I	W1-2	Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading. [0-0-2]	In Person Learning	Arranged	Arranged
DENT_V 595-001	DENT_V	595		001	Endodontic Case Review and Treatment Planning II	W1-2	Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading. [0-0-2]	In Person Learning	Arranged	Arranged
DENT_V 596-001	DENT_V	596		001	Endodontic Case Review and Treatment Planning III	W1-2	Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading. [0-0-2]	In Person Learning	Arranged	Arranged
DENT_V 599-001	DENT_V	599		001	M.Sc. Thesis	W1-2	Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 599-101	DENT_V	599		101	M.Sc. Thesis	W1	Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 599-201	DENT_V	599		201	M.Sc. Thesis	W1-2	Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 599-LEC	DENT_V	599		LEC	M.Sc. Thesis	W2	Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.

DENT_V 649-001	DENT_V	649	001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
DENT_V 649-002	DENT_V	649	002	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
DENT_V 649-003	DENT_V	649	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
DENT_V 649-SEM	DENT_V	649	SEM	Doctoral Dissertation	W2		In Person Learning	Sat	8:00 a.m. - 5:00 p.m.
DENT_V 711-001	DENT_V	711	001	Clinical Periodontics and Implant Surgery I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 712-001	DENT_V	712	001	Clinical Periodontics and Implant Surgery II	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 713-001	DENT_V	713	001	Clinical Periodontics and Implant Surgery III	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 713-LEC	DENT_V	713	LEC	Clinical Periodontics and Implant Surgery III	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 715-001	DENT_V	715	001	Periodontal Therapy Seminars	W1-2		In Person Learning	Arranged	Arranged
DENT_V 721-001	DENT_V	721	001	Clinical Endodontics, Year 1	W1-2	Endodontic treatment of patients in the clinic under the supervision of specialist instructors. Supervised endodontic treatment clinic. This course is not eligible for Credit/D/Fail grading. [0-0-18]	In Person Learning	Arranged	Arranged
DENT_V 722-001	DENT_V	722	001	Clinical Endodontics, Year 2	W1-2	Endodontic treatment of patients in the clinic under the supervision of specialist instructors. Supervised endodontic treatment clinic. This course is not eligible for Credit/D/Fail grading. [0-0-18]	In Person Learning	Arranged	Arranged
DENT_V 724-001	DENT_V	724	001	Clinical Endodontics, Year 3	W1-2	Endodontic treatment of patients in the clinic under the supervision of specialist instructors. Supervised endodontic treatment clinic. This course is not eligible for Credit/D/Fail grading. [0-0-15]	In Person Learning	Arranged	Arranged
DENT_V 725-001	DENT_V	725	001	Clinical Prosthodontics I	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 726-001	DENT_V	726	001	Clinical Prosthodontics II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 727-001	DENT_V	727	001	Clinical Prosthodontics III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 740-001	DENT_V	740	001	Clinical Dentistry	W1-2		In Person Learning	Arranged	Arranged
DENT_V 743-001	DENT_V	743	001	Seminars on Hospital Dentistry	W1-2		In Person Learning	Arranged	Arranged
DENT_V 756-001	DENT_V	756	001	Oral Radiology	W1		In Person Learning	Arranged	Arranged
DENT_V 756-NMO	DENT_V	756	NMO	Oral Radiology	W1		In Person Learning	Tue	3:30 p.m. - 6:00 p.m.
DENT_V 771-001	DENT_V	771	001	Orthodontic and Dentofacial Orthopedic Clinics I	W1-2	Continues in second year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 772-001	DENT_V	772	001	Orthodontic and Dentofacial Orthopedic Clinics II	W1-2	Continues in third year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 772-SEM	DENT_V	772	SEM	Orthodontic and Dentofacial Orthopedic Clinics II	W1	Continues in third year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.
DENT_V 773-001	DENT_V	773	001	Orthodontic and Dentofacial Orthopedic Clinics III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

DENT_V 773-NMO	DENT_V	773	NMO	Orthodontic and Dentofacial Orthopedic Clinics III	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 12:00 p.m.	
DENT_V 773-ORT	DENT_V	773	ORT	Orthodontic and Dentofacial Orthopedic Clinics III	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.	
DENT_V 775-A_001	DENT_V	775	A	A_001	Interdisciplinary Care in Orthodontics and Dentofacial Orthopedics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 775-B_002	DENT_V	775	B	B_002	Interdisciplinary Care in Orthodontics and Dentofacial Orthopedics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 777-001	DENT_V	777		001	Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 778-001	DENT_V	778		001	Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning II	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 779-001	DENT_V	779		001	Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning III	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 779-SEM	DENT_V	779		SEM	Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning III	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 780-001	DENT_V	780		001	Clinical Pediatric Dentistry I	W1-2	Continues in year 5. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 781-001	DENT_V	781		001	Clinical Pediatric Dentistry II	W1-2	Continues in year 6. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 782-001	DENT_V	782		001	Clinical Pediatric Dentistry III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 783-001	DENT_V	783		001	Hospital Clinical Pediatrics I	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 784-001	DENT_V	784		001	Hospital Clinical Pediatrics II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DENT_V 785-001	DENT_V	785		001	Hospital Clinical Pediatrics III	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DES_V 101-101	DES_V	101		101	Introductory Workshop	W1	Week long orientation to the School community, the City and the study of design one week prior to the start of Winter Session Term 1. Credit will be granted for only one of ENDS 101 or DES 101. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DES_V 110-101	DES_V	110		101	Measured Architectural Drawing	W1	Techniques applicable to analytic and technical drawing used in architecture, landscape architecture, and urban design with focus primarily on analog drawing techniques. Open to all UBC students regardless of prior experience. Credit will be granted for only one of ENDS 110 or DES 110.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
DES_V 110-201	DES_V	110		201	Measured Architectural Drawing	W2	Techniques applicable to analytic and technical drawing used in architecture, landscape architecture, and urban design with focus primarily on analog drawing techniques. Open to all UBC students regardless of prior experience. Credit will be granted for only one of ENDS 110 or DES 110.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
DES_V 130-002	DES_V	130		002	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.
DES_V 130-101	DES_V	130		L01	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
DES_V 130-102	DES_V	130		L02	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
DES_V 130-103	DES_V	130		L03	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
DES_V 130-104	DES_V	130		L04	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
DES_V 130-105	DES_V	130		L05	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.

DES_V 130-L06	DES_V	130	L06	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
DES_V 130-L07	DES_V	130	L07	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
DES_V 130-L08	DES_V	130	L08	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
DES_V 130-L09	DES_V	130	L09	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DES_V 130-L10	DES_V	130	L10	Design, Culture and Ecology	W2	Survey of the visual, cultural, ecological and spatial literacies in architectural and urban design.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
DES_V 200-001	DES_V	200	001	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 12:30 p.m.
DES_V 200-L01	DES_V	200	L01	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
DES_V 200-L02	DES_V	200	L02	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
DES_V 200-L03	DES_V	200	L03	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
DES_V 200-L04	DES_V	200	L04	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
DES_V 200-L05	DES_V	200	L05	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
DES_V 200-L06	DES_V	200	L06	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
DES_V 200-L07	DES_V	200	L07	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DES_V 200-L08	DES_V	200	L08	Design Thinking	W1	Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 231 or DES 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
DES_V 201-001	DES_V	201	001	Design Studio I - Context and Site	W1	Design within the context of various analytical lenses including ecological, climatic, social, political, cultural and historical influences. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 110, VISA 180.	In Person Learning	Mon Wed	1:30 p.m. - 5:00 p.m.
DES_V 202-001	DES_V	202	001	Design Studio II - Form	W2	Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201.	In Person Learning	Mon	1:30 p.m. - 5:00 p.m.
DES_V 202-L01	DES_V	202	L01	Design Studio II - Form	W2	Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201.	In Person Learning	Wed	1:30 p.m. - 5:00 p.m.
DES_V 202-L02	DES_V	202	L02	Design Studio II - Form	W2	Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201.	In Person Learning	Wed	1:30 p.m. - 5:00 p.m.
DES_V 202-L03	DES_V	202	L03	Design Studio II - Form	W2	Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201.	In Person Learning	Wed	1:30 p.m. - 5:00 p.m.
DES_V 202-L04	DES_V	202	L04	Design Studio II - Form	W2	Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201.	In Person Learning	Wed	1:30 p.m. - 5:00 p.m.
DES_V 211-002	DES_V	211	002	Design Media I	W1	Techniques in architectural drawing, two-dimensional representation, three-dimensional representation and general visual literacy. Credit will be granted for only one of ENDS 320, ARCH 515 or DES 211. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 110, VISA 180.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
DES_V 212-201	DES_V	212	201	Design Media II	W2	Advanced techniques in architectural representation and discourse in digital representation and digital making. Credit will be granted for only one of ARCH 437, ARCH 517 or DES 212. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 211.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.
DES_V 220-001	DES_V	220	001	Architecture and Urbanism in Context: Vancouver and its Region	W1	The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220.	Hybrid Learning	Thu	5:00 p.m. - 6:30 p.m.

DES_V 220-L01	DES_V	220	L01	Architecture and Urbanism in Context: Vancouver and its Region	W1	The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
DES_V 220-L02	DES_V	220	L02	Architecture and Urbanism in Context: Vancouver and its Region	W1	The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
DES_V 220-L04	DES_V	220	L04	Architecture and Urbanism in Context: Vancouver and its Region	W1	The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
DES_V 220-L05	DES_V	220	L05	Architecture and Urbanism in Context: Vancouver and its Region	W1	The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
DES_V 220-L06	DES_V	220	L06	Architecture and Urbanism in Context: Vancouver and its Region	W1	The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
DES_V 230-001	DES_V	230	001	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 6:30 p.m.
DES_V 230-T01	DES_V	230	T01	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
DES_V 230-T02	DES_V	230	T02	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
DES_V 230-T04	DES_V	230	T04	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
DES_V 230-T05	DES_V	230	T05	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
DES_V 230-T06	DES_V	230	T06	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
DES_V 230-T07	DES_V	230	T07	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
DES_V 230-T09	DES_V	230	T09	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
DES_V 230-T12	DES_V	230	T12	Sustainability by Design	W2	Interactions between human and natural urban systems using local and international examples of successful sustainable community designs. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
DES_V 231-001	DES_V	231	001	Site Analysis and Planning	W1	Analysis and planning of relatively complex sites, emphasizing storm water management design. Credit will be given for only one of DES 231, LARC 440, or LARC 540. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DES_V 232-201	DES_V	232	201	Material Culture	W2	An investigation of building materials and associated design objectives, environmental conditions, historical context, regulatory controls, and economic constraints. Credit will be granted for only one of DES 232 or ARCH 411. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
DES_V 301-001	DES_V	301	001	Design Studio III - Building Scale Synthesis	W1	Design at the architectural scale through the medium of program and site. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 202.	In Person Learning	Mon	1:30 p.m. - 5:00 p.m.
DES_V 302-001	DES_V	302	001	Design Studio IV - Vancouver	W2	Vancouver as a laboratory for design at the architectural and urban scale with a focused view into how design is implicated in the social, political, and environmental transformation of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 301.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
DES_V 320-001	DES_V	320	001	History of the Design of the Built Environment	W1	A broad historical introduction to architectural and landscape architectural design within the context of politics, economics and culture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
DES_V 320-T01	DES_V	320	T01	History of the Design of the Built Environment	W1	A broad historical introduction to architectural and landscape architectural design within the context of politics, economics and culture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
DES_V 320-T02	DES_V	320	T02	History of the Design of the Built Environment	W1	A broad historical introduction to architectural and landscape architectural design within the context of politics, economics and culture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
DES_V 320-T03	DES_V	320	T03	History of the Design of the Built Environment	W1	A broad historical introduction to architectural and landscape architectural design within the context of politics, economics and culture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
DES_V 320-T04	DES_V	320	T04	History of the Design of the Built Environment	W1	A broad historical introduction to architectural and landscape architectural design within the context of politics, economics and culture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.

DES_V 321-A_101	DES_V	321	A	A_101	Topics in Architectural History I (Pre-1900)	W1	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. Credit will be granted for only one of DES 321, ARCH 404 or ARCH 504. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Arranged	Arranged
DES_V 321-B_201	DES_V	321	B	B_201	Topics in Architectural History I (Pre-1900)	W2	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. Credit will be granted for only one of DES 321, ARCH 404 or ARCH 504. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Arranged	Arranged
DES_V 321-D_101	DES_V	321	D	D_101	Topics in Architectural History I (Pre-1900)	W1	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. Credit will be granted for only one of DES 321, ARCH 404 or ARCH 504. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
DES_V 321-D_D01	DES_V	321	D	D_D01	Topics in Architectural History I (Pre-1900)	W1	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. Credit will be granted for only one of DES 321, ARCH 404 or ARCH 504. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
DES_V 321-F_201	DES_V	321	F	F_201	Topics in Architectural History I (Pre-1900)	W2	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. Credit will be granted for only one of DES 321, ARCH 404 or ARCH 504. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
DES_V 321-F_D01	DES_V	321	F	F_D01	Topics in Architectural History I (Pre-1900)	W2	History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. Credit will be granted for only one of DES 321, ARCH 404 or ARCH 504. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
DES_V 322-A_101	DES_V	322	A	A_101	Topics in Architectural History II (1900-Present)	W1	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. Credit will be granted for only one of DES 322, ARCH 405 or ARCH 505. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Arranged	Arranged
DES_V 322-B_201	DES_V	322	B	B_201	Topics in Architectural History II (1900-Present)	W2	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. Credit will be granted for only one of DES 322, ARCH 405 or ARCH 505. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Arranged	Arranged
DES_V 322-D_101	DES_V	322	D	D_101	Topics in Architectural History II (1900-Present)	W1	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. Credit will be granted for only one of DES 322, ARCH 405 or ARCH 505. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
DES_V 322-E_201	DES_V	322	E	E_201	Topics in Architectural History II (1900-Present)	W2	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. Credit will be granted for only one of DES 322, ARCH 405 or ARCH 505. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
DES_V 322-F_201	DES_V	322	F	F_201	Topics in Architectural History II (1900-Present)	W2	History of architecture in the post-1900 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. Credit will be granted for only one of DES 322, ARCH 405 or ARCH 505. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Arranged	Arranged
DES_V 323-001	DES_V	323		001	Histories in Landscape Architecture	W2	Landscapes from medieval times to the present studied synchronically across design elements as well as chronologically with the development of several key historical concepts. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DES_V 330-002	DES_V	330		002	Structural Systems and Supports	W1	Basic structural systems in the built world including wood, steel, concrete, composite systems and essential structural logics of soil retention systems and drainage. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DES 231, DES 232.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
DES_V 341-101	DES_V	341		101	Co-operative Education Work Term I	W1	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 107.	In Person Learning	Arranged	Arranged
DES_V 341-201	DES_V	341		201	Co-operative Education Work Term I	W2	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 107.	In Person Learning	Arranged	Arranged
DES_V 401-101	DES_V	401		101	Design Studio V - Urban Systems Scale Synthesis	W1	Relationships between communities and environment, urban infrastructure and ecological systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 302.	In Person Learning	Mon	1:30 p.m. - 5:00 p.m.
DES_V 402-201	DES_V	402		201	Design Studio VI - Away	W2	A design project engaged with an international context and site. Emphasis placed on mapping, interpretation of the international context as well as methods of construction, notions of program, and policies, regulations and codes that relate to the site. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 401.	In Person Learning	Mon	1:30 p.m. - 5:00 p.m.
DES_V 403-001	DES_V	403		001	Senior Design Project	W2	Final design project in the Honours Option with an independently conceived methodology allowing a student the opportunity to pursue his/her own set of interests and concerns. This course is not eligible for Credit/D/Fail grading. Prerequisite: A sessional average of 80% or better in each of years 2 and 3 and a grade of 80% or better in each of DES 201, 202, 301, 302 and DES 401.	In Person Learning	Mon	1:30 p.m. - 5:00 p.m.
DES_V 421-001	DES_V	421		001	Design Theory	W1	Introduction to a broad range of theories in architecture and design as they relate to the built environment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DES_V 422-101	DES_V	422		101	Urbanism by Design	W1	A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, DES 322, DES 323.	In Person Learning	Wed	10:30 a.m. - 12:00 p.m.
DES_V 422-T01	DES_V	422		T01	Urbanism by Design	W1	A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, DES 322, DES 323.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
DES_V 422-T02	DES_V	422		T02	Urbanism by Design	W1	A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, DES 322, DES 323.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.

DES_V 422-T03	DES_V	422		T03	Urbanism by Design	W1	A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, DES 322, DES 323.	In Person Learning	Thu	11:30 a.m. - 12:30 p.m.
DES_V 422-T04	DES_V	422		T04	Urbanism by Design	W1	A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, DES 322, DES 323.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
DES_V 430-002	DES_V	430		002	Environment, Urban Form, and Infrastructure	W1	Relationships between, and integration of, the natural environment and the physical form, spatial structure, and infrastructure of livability of cities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
DES_V 442-101	DES_V	442		101	Co-operative Education Work Term II	W1	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 341.	In Person Learning	Arranged	Arranged
DES_V 442-201	DES_V	442		201	Co-operative Education Work Term II	W2	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 341.	In Person Learning	Arranged	Arranged
DES_V 443-101	DES_V	443		101	Co-operative Education Work Term III	W1	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 442.	In Person Learning	Arranged	Arranged
DES_V 443-201	DES_V	443		201	Co-operative Education Work Term III	W2	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 442.	In Person Learning	Arranged	Arranged
DES_V 444-101	DES_V	444		101	Co-operative Education Work Term IV	W1	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 443.	In Person Learning	Arranged	Arranged
DES_V 444-201	DES_V	444		201	Co-operative Education Work Term IV	W2	Supervised, technical work- integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 443.	In Person Learning	Arranged	Arranged
DES_V 445-001	DES_V	445		001	Entrepreneurship and Ethics in Design	W2	Core business skills, building on students' design capabilities to pursue ethical and sustainable design-based business goals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DES_V 450-D_201	DES_V	450	D	D_201	Special Topics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DHYG_V 106-001	DHYG_V	106		001	Basics of Oral Microbiology	W2	Basic principles in the study of microorganisms and their relation to human health for dental hygiene students.	In Person Learning	Mon	3:30 p.m. - 4:30 p.m.
DHYG_V 108-108	DHYG_V	108		108	Oral Health Sciences I	W2	An introduction to normal, healthy facial, oral, and dental structures; oral health records, and charting terminology and symbols.	In Person Learning	Arranged	Arranged
DHYG_V 110-001	DHYG_V	110		001	Dental Hygiene Theory and Practice I	W1-2	An introduction to the Dental Hygiene profession, practice roles, the process of care model, ethical practice, and dental public health.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
DHYG_V 206-001	DHYG_V	206		001	Head & Neck Anatomy	W1	Prerequisite: All of BIOL 153, DHYG 108.	In Person Learning	Mon	8:30 a.m. - 11:00 a.m.
DHYG_V 208-001	DHYG_V	208		001	Oral Health Sciences II	W1-2	An introduction to disease-related concepts during the study of dental materials, general pathology, plaque biofilm, nutrition, radiology, periodontology, and oral pathology. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 108.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
DHYG_V 210-001	DHYG_V	210		001	Dental Hygiene Theory and Practice II	W1-2	The study of dental hygiene theory and practice in clinical and community-based settings. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 110.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
DHYG_V 310-001	DHYG_V	310		001	Dental Hygiene Theory & Practice III	W1-2	The study of dental hygiene theory and practice with emphasis on diverse clients with oral health care needs. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 210.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
DHYG_V 310-DNU_001	DHYG_V	310		DNU_001	Dental Hygiene Theory & Practice III	W2	The study of dental hygiene theory and practice with emphasis on diverse clients with oral health care needs. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 210.	In Person Learning	Arranged	Arranged
DHYG_V 325-325	DHYG_V	325		325	Applied Pharmacology	W1	Applied pharmacology concepts and principles for the dental health professional.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
DHYG_V 400-A_99A	DHYG_V	400	A	A_99A	Policy Analysis and Change	W1-2	Critical reviews of oral health care delivery, oral disease processes and dental hygiene. [3-0-0]	Online Learning	Arranged	Arranged

DHYG_V 400-B-001	DHYG_V	400	B	B_001	Policy Analysis and Change	W1	Critical reviews of oral health care delivery, oral disease processes and dental hygiene. [3-0-0]	Online Learning	Arranged	Arranged
DHYG_V 401-001	DHYG_V	401		001	Oral Epidemiology	W1-2	Basic epidemiological and statistical concepts and tests relevant to evidence-based oral health practices.	Online Learning	Arranged	Arranged
DHYG_V 401-99A	DHYG_V	401		99A	Oral Epidemiology	W1-2	Basic epidemiological and statistical concepts and tests relevant to evidence-based oral health practices.	Online Learning	Arranged	Arranged
DHYG_V 402-99A	DHYG_V	402		99A	Dental Hygiene Practice I	W1-2	Dental hygiene concepts, processes, and skills for individuals and communities. [3-0-0; 3-0-0]	Online Learning	Arranged	Arranged
DHYG_V 405-001	DHYG_V	405		001	Oral Microbiology and Immunology	W1	Microbiology and immunological concepts relevant for dental hygiene practice.	In Person Learning	Thu	9:00 a.m. - 1:00 p.m.
DHYG_V 405-99A	DHYG_V	405		99A	Oral Microbiology and Immunology	W1	Microbiology and immunological concepts relevant for dental hygiene practice.	Online Learning	Arranged	Arranged
DHYG_V 406-001	DHYG_V	406		001	Guided Study in Dental Hygiene	W1-2	Conduct an in-depth investigation of a health promotion issue. Prerequisite: All of DHYG 400, DHYG 401, DHYG 461. And Faculty approval.	In Person Learning	Arranged	Arranged
DHYG_V 410-001	DHYG_V	410		001	Dental Hygiene Theory & Practice IV	W1-2	Critical analysis of dental hygiene theory and practice related to diverse clients with complex oral health care needs. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 310.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
DHYG_V 412-001	DHYG_V	412		001	Oral Health Care Trends & Topics	W1-2	Critical analysis of health care trends and oral health care delivery with emphasis on underserved diverse populations. Prerequisite: Pre or Corequisite: DHYG 462	Online Learning	Arranged	Arranged
DHYG_V 412-99A	DHYG_V	412		99A	Oral Health Care Trends & Topics	W1-2	Critical analysis of health care trends and oral health care delivery with emphasis on underserved diverse populations. Prerequisite: Pre or Corequisite: DHYG 462	Online Learning	Arranged	Arranged
DHYG_V 433-99C	DHYG_V	433		99C	Assessment and Treatment Planning for Advanced Periodontal Diseases	W2	Available in online distance education format only.	Online Learning	Arranged	Arranged
DHYG_V 435-001	DHYG_V	435		001	Oral Medicine and Pathology	W2	Pathobiology of oral diseases. Available in online distance education format only.	Online Learning	Arranged	Arranged
DHYG_V 435-99A	DHYG_V	435		99A	Oral Medicine and Pathology	W1	Pathobiology of oral diseases. Available in online distance education format only.	Online Learning	Arranged	Arranged
DHYG_V 461-001	DHYG_V	461		001	Critical Appraisal and Professional Writing in Quantitative Research	W2	Corequisite: DHYG 401.	Online Learning	Arranged	Arranged
DHYG_V 461-99C	DHYG_V	461		99C	Critical Appraisal and Professional Writing in Quantitative Research	W2	Corequisite: DHYG 401.	Online Learning	Arranged	Arranged
DHYG_V 462-001	DHYG_V	462		001	Critical Appraisal and Professional Writing in Qualitative Research	W1	Prerequisite: DHYG 461. Corequisite: DHYG 401.	Online Learning	Arranged	Arranged
DHYG_V 462-99A	DHYG_V	462		99A	Critical Appraisal and Professional Writing in Qualitative Research	W2	Prerequisite: DHYG 461. Corequisite: DHYG 401.	Online Learning	Arranged	Arranged
DHYG_V 480-99C	DHYG_V	480		99C	Social Entrepreneurship in Oral Health Care	W2	Contemporary topics in social entrepreneurship and intrapreneurship in the context of oral health services and the delivery of care. Transformative leadership and innovation within the dynamic landscape of the Canadian healthcare system.	Online Learning	Arranged	Arranged
DMED_V 500-101	DMED_V	500		101	Foundations of Digital Entertainment	W1	Business, technological, social, and ethical issues of digital entertainment introduced and framed through historical exploration and critical analysis of economics, technical innovations, social demands, and ethical constraints involved. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
DSCI_V 100-002	DSCI_V	100		002	Introduction to Data Science	W2	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
DSCI_V 100-003	DSCI_V	100		003	Introduction to Data Science	W1	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
DSCI_V 100-004	DSCI_V	100		004	Introduction to Data Science	W1	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
DSCI_V 100-005	DSCI_V	100		005	Introduction to Data Science	W2	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.

DSCI_V 100-006	DSCI_V	100	006	Introduction to Data Science	W2	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
DSCI_V 100-007	DSCI_V	100	007	Introduction to Data Science	W2	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Mon Fri	3:00 p.m. - 4:30 p.m.
DSCI_V 100-008	DSCI_V	100	008	Introduction to Data Science	W1	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
DSCI_V 100-009	DSCI_V	100	009	Introduction to Data Science	W1	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.
DSCI_V 100-010	DSCI_V	100	010	Introduction to Data Science	W2	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Mon Fri	4:00 p.m. - 5:30 p.m.
DSCI_V 100-100	DSCI_V	100	100	Introduction to Data Science	W2	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Tue Thu	4:30 p.m. - 6:00 p.m.
DSCI_V 100-101	DSCI_V	100	101	Introduction to Data Science	W1	Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. [3-0-1] Prerequisite: MATH 12	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
DSCI_V 310-101	DSCI_V	310	101	Reproducible and Trustworthy Workflows for Data Science	W2	Data science methods to automate the running and testing of code and analytic reports, manage data analysis software dependencies, package and deploy software for data analysis, and collaborate with others using version control. [3-0-1] Prerequisite: DSCI 100 and either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) one of MATH 210, ECON 323 and one of CPSC 107, CPSC 110.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
DSCI_V 310-T1A	DSCI_V	310	T1A	Reproducible and Trustworthy Workflows for Data Science	W2	Data science methods to automate the running and testing of code and analytic reports, manage data analysis software dependencies, package and deploy software for data analysis, and collaborate with others using version control. [3-0-1] Prerequisite: DSCI 100 and either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) one of MATH 210, ECON 323 and one of CPSC 107, CPSC 110.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
DSCI_V 320-101	DSCI_V	320	101	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
DSCI_V 320-201	DSCI_V	320	201	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
DSCI_V 320-L1A	DSCI_V	320	L1A	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
DSCI_V 320-L1B	DSCI_V	320	L1B	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
DSCI_V 320-L1C	DSCI_V	320	L1C	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Arranged	Arranged
DSCI_V 320-L2A	DSCI_V	320	L2A	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
DSCI_V 320-L2B	DSCI_V	320	L2B	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
DSCI_V 320-L2C	DSCI_V	320	L2C	Visualization for Data Science	W2	Analysis, design, and implementation of static and interactive visual representations; visualization literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 210, CPEN 221.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 430-101	DSCI_V	430	101	Fairness, Accountability, Transparency and Ethics (FATE) in Data Science	W1	Ethical application of data science and machine learning algorithms. Application of ethical theories in real-world case studies. Data ownership, collection, and validity. Algorithm auditing, fairness and transparency. Reducing unfairness in algorithms. Deployment of predictive models and dissemination of results. [3-0-0] Prerequisite: One of CPSC 330, CPSC 340, STAT 301, STAT 406.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
DSCI_V 511-001	DSCI_V	511	001	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 511-002	DSCI_V	511	002	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 511-003	DSCI_V	511	003	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
DSCI_V 511-L01	DSCI_V	511	L01	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.

DSCI_V 511-L02	DSCI_V	511	L02	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 511-L03	DSCI_V	511	L03	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 511-L04	DSCI_V	511	L04	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 511-L05	DSCI_V	511	L05	Programming for Data Science	W1	Pseudo-code. Program design and structure. Flow control. Iteration. Lists (arrays). Functions. File I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
DSCI_V 512-001	DSCI_V	512	001	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 512-002	DSCI_V	512	002	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 512-003	DSCI_V	512	003	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
DSCI_V 512-L01	DSCI_V	512	L01	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 512-L02	DSCI_V	512	L02	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 512-L03	DSCI_V	512	L03	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 512-L04	DSCI_V	512	L04	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 512-L05	DSCI_V	512	L05	Algorithms and Data Structures	W1	Basic algorithms. Recursion. Data structures including linked lists, queues, stacks, trees, graphs, and hash tables. Searching and sorting. Introduction to complexity including Big-O notation, efficiency, and scalability. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
DSCI_V 513-001	DSCI_V	513	001	Databases and Data Retrieval	W1	Relational schemas. SQL queries. Database programming using embedded SQL. XML and XQuery. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 513-002	DSCI_V	513	002	Databases and Data Retrieval	W1	Relational schemas. SQL queries. Database programming using embedded SQL. XML and XQuery. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 513-L01	DSCI_V	513	L01	Databases and Data Retrieval	W1	Relational schemas. SQL queries. Database programming using embedded SQL. XML and XQuery. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 513-L02	DSCI_V	513	L02	Databases and Data Retrieval	W1	Relational schemas. SQL queries. Database programming using embedded SQL. XML and XQuery. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 513-L03	DSCI_V	513	L03	Databases and Data Retrieval	W1	Relational schemas. SQL queries. Database programming using embedded SQL. XML and XQuery. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 513-L04	DSCI_V	513	L04	Databases and Data Retrieval	W1	Relational schemas. SQL queries. Database programming using embedded SQL. XML and XQuery. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 521-001	DSCI_V	521	001	Computing Platforms for Data Science	W1	Introduction to software, shells, tools, and file systems for use in the Data Science program. Installation, configuration, and use of statistical and programming software including Integrated Development Environments (IDEs). Problem resolution skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 521-002	DSCI_V	521	002	Computing Platforms for Data Science	W1	Introduction to software, shells, tools, and file systems for use in the Data Science program. Installation, configuration, and use of statistical and programming software including Integrated Development Environments (IDEs). Problem resolution skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 521-L01	DSCI_V	521	L01	Computing Platforms for Data Science	W1	Introduction to software, shells, tools, and file systems for use in the Data Science program. Installation, configuration, and use of statistical and programming software including Integrated Development Environments (IDEs). Problem resolution skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 521-L02	DSCI_V	521	L02	Computing Platforms for Data Science	W1	Introduction to software, shells, tools, and file systems for use in the Data Science program. Installation, configuration, and use of statistical and programming software including Integrated Development Environments (IDEs). Problem resolution skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 521-L03	DSCI_V	521	L03	Computing Platforms for Data Science	W1	Introduction to software, shells, tools, and file systems for use in the Data Science program. Installation, configuration, and use of statistical and programming software including Integrated Development Environments (IDEs). Problem resolution skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.

DSCI_V 521-L04	DSCI_V	521	L04	Computing Platforms for Data Science	W1	Introduction to software, shells, tools, and file systems for use in the Data Science program. Installation, configuration, and use of statistical and programming software including Integrated Development Environments (IDEs). Problem resolution skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 522-001	DSCI_V	522	001	Data Science Workflows	W1	Interactive and non-interactive data analysis. Scripting. Dynamic reporting. Reproducibility. Project and file management. Version control. Automated workflows. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 522-002	DSCI_V	522	002	Data Science Workflows	W1	Interactive and non-interactive data analysis. Scripting. Dynamic reporting. Reproducibility. Project and file management. Version control. Automated workflows. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 522-L01	DSCI_V	522	L01	Data Science Workflows	W1	Interactive and non-interactive data analysis. Scripting. Dynamic reporting. Reproducibility. Project and file management. Version control. Automated workflows. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 522-L02	DSCI_V	522	L02	Data Science Workflows	W1	Interactive and non-interactive data analysis. Scripting. Dynamic reporting. Reproducibility. Project and file management. Version control. Automated workflows. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 522-L03	DSCI_V	522	L03	Data Science Workflows	W1	Interactive and non-interactive data analysis. Scripting. Dynamic reporting. Reproducibility. Project and file management. Version control. Automated workflows. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 522-L04	DSCI_V	522	L04	Data Science Workflows	W1	Interactive and non-interactive data analysis. Scripting. Dynamic reporting. Reproducibility. Project and file management. Version control. Automated workflows. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 523-001	DSCI_V	523	001	Programming for Data Manipulation	W1	Program design and data manipulation using industry-standard software tools designed for statistical work. Organizing, filtering, sorting, grouping, reformatting, converting, and cleaning data to prepare it for further analysis. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. Corequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 523-002	DSCI_V	523	002	Programming for Data Manipulation	W1	Program design and data manipulation using industry-standard software tools designed for statistical work. Organizing, filtering, sorting, grouping, reformatting, converting, and cleaning data to prepare it for further analysis. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. Corequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 523-L01	DSCI_V	523	L01	Programming for Data Manipulation	W1	Program design and data manipulation using industry-standard software tools designed for statistical work. Organizing, filtering, sorting, grouping, reformatting, converting, and cleaning data to prepare it for further analysis. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. Corequisite: All of DSCI 511, DSCI 521.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 523-L02	DSCI_V	523	L02	Programming for Data Manipulation	W1	Program design and data manipulation using industry-standard software tools designed for statistical work. Organizing, filtering, sorting, grouping, reformatting, converting, and cleaning data to prepare it for further analysis. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. Corequisite: All of DSCI 511, DSCI 521.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 523-L03	DSCI_V	523	L03	Programming for Data Manipulation	W1	Program design and data manipulation using industry-standard software tools designed for statistical work. Organizing, filtering, sorting, grouping, reformatting, converting, and cleaning data to prepare it for further analysis. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. Corequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 523-L04	DSCI_V	523	L04	Programming for Data Manipulation	W1	Program design and data manipulation using industry-standard software tools designed for statistical work. Organizing, filtering, sorting, grouping, reformatting, converting, and cleaning data to prepare it for further analysis. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. Corequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 524-001	DSCI_V	524	001	Collaborative Software Development	W2	Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 524-002	DSCI_V	524	002	Collaborative Software Development	W2	Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 524-L01	DSCI_V	524	L01	Collaborative Software Development	W2	Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 524-L02	DSCI_V	524	L02	Collaborative Software Development	W2	Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 524-L03	DSCI_V	524	L03	Collaborative Software Development	W2	Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 524-L04	DSCI_V	524	L04	Collaborative Software Development	W2	Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 525-001	DSCI_V	525	001	Web and Cloud Computing	W2	Networks and the Internet, scraping data, APIs, cloud computing, Web services for scalable computing, Web hosting, Web publication platforms, introduction to parallel computing. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 522, DSCI 523.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 525-002	DSCI_V	525	002	Web and Cloud Computing	W2	Networks and the Internet, scraping data, APIs, cloud computing, Web services for scalable computing, Web hosting, Web publication platforms, introduction to parallel computing. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 522, DSCI 523.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

DSCI_V 525-L01	DSCI_V	525	L01	Web and Cloud Computing	W2	Networks and the Internet, scraping data, APIs, cloud computing, Web services for scalable computing, Web hosting, Web publication platforms, introduction to parallel computing. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 522, DSCI 523.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 525-L02	DSCI_V	525	L02	Web and Cloud Computing	W2	Networks and the Internet, scraping data, APIs, cloud computing, Web services for scalable computing, Web hosting, Web publication platforms, introduction to parallel computing. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 522, DSCI 523.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 525-L03	DSCI_V	525	L03	Web and Cloud Computing	W2	Networks and the Internet, scraping data, APIs, cloud computing, Web services for scalable computing, Web hosting, Web publication platforms, introduction to parallel computing. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 522, DSCI 523.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 525-L04	DSCI_V	525	L04	Web and Cloud Computing	W2	Networks and the Internet, scraping data, APIs, cloud computing, Web services for scalable computing, Web hosting, Web publication platforms, introduction to parallel computing. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 522, DSCI 523.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 531-001	DSCI_V	531	001	Data Visualization I	W1	Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 531-002	DSCI_V	531	002	Data Visualization I	W1	Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 531-L01	DSCI_V	531	L01	Data Visualization I	W1	Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 531-L02	DSCI_V	531	L02	Data Visualization I	W1	Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 531-L03	DSCI_V	531	L03	Data Visualization I	W1	Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 531-L04	DSCI_V	531	L04	Data Visualization I	W1	Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 532-001	DSCI_V	532	001	Data Visualization II	W2	Interactive visualization, design choices, dynamic change over time, multiple views, data reduction, dealing with complexity. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 531.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 532-002	DSCI_V	532	002	Data Visualization II	W2	Interactive visualization, design choices, dynamic change over time, multiple views, data reduction, dealing with complexity. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 531.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 532-L01	DSCI_V	532	L01	Data Visualization II	W2	Interactive visualization, design choices, dynamic change over time, multiple views, data reduction, dealing with complexity. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 531.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 532-L02	DSCI_V	532	L02	Data Visualization II	W2	Interactive visualization, design choices, dynamic change over time, multiple views, data reduction, dealing with complexity. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 531.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 532-L03	DSCI_V	532	L03	Data Visualization II	W2	Interactive visualization, design choices, dynamic change over time, multiple views, data reduction, dealing with complexity. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 531.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 532-L04	DSCI_V	532	L04	Data Visualization II	W2	Interactive visualization, design choices, dynamic change over time, multiple views, data reduction, dealing with complexity. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 531.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 541-001	DSCI_V	541	001	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 541-002	DSCI_V	541	002	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 541-003	DSCI_V	541	003	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 541-L01	DSCI_V	541	L01	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 541-L02	DSCI_V	541	L02	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 541-L03	DSCI_V	541	L03	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 541-L04	DSCI_V	541	L04	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.

DSCI_V 541-L05	DSCI_V	541	L05	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 541-L06	DSCI_V	541	L06	Privacy, Ethics, and Security	W2	Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
DSCI_V 542-001	DSCI_V	542	001	Communication and Argumentation	W2	Claims, reasons, and evidence. Strengths and weaknesses of models. Effective oral and written presentation of scientific results, including interpretation of data and recognition of assumptions, bias, validity, and reliability. Citations, references, and peer-review. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 542-002	DSCI_V	542	002	Communication and Argumentation	W2	Claims, reasons, and evidence. Strengths and weaknesses of models. Effective oral and written presentation of scientific results, including interpretation of data and recognition of assumptions, bias, validity, and reliability. Citations, references, and peer-review. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 542-L01	DSCI_V	542	L01	Communication and Argumentation	W2	Claims, reasons, and evidence. Strengths and weaknesses of models. Effective oral and written presentation of scientific results, including interpretation of data and recognition of assumptions, bias, validity, and reliability. Citations, references, and peer-review. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 542-L02	DSCI_V	542	L02	Communication and Argumentation	W2	Claims, reasons, and evidence. Strengths and weaknesses of models. Effective oral and written presentation of scientific results, including interpretation of data and recognition of assumptions, bias, validity, and reliability. Citations, references, and peer-review. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 542-L03	DSCI_V	542	L03	Communication and Argumentation	W2	Claims, reasons, and evidence. Strengths and weaknesses of models. Effective oral and written presentation of scientific results, including interpretation of data and recognition of assumptions, bias, validity, and reliability. Citations, references, and peer-review. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 542-L04	DSCI_V	542	L04	Communication and Argumentation	W2	Claims, reasons, and evidence. Strengths and weaknesses of models. Effective oral and written presentation of scientific results, including interpretation of data and recognition of assumptions, bias, validity, and reliability. Citations, references, and peer-review. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 551-001	DSCI_V	551	001	Descriptive Statistics and Probability for Data Science	W1	Descriptive statistics including measures of location and spread. Random variables, distributions, and parameters. Categorical variables. Uncertainty. Missing data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 551-002	DSCI_V	551	002	Descriptive Statistics and Probability for Data Science	W1	Descriptive statistics including measures of location and spread. Random variables, distributions, and parameters. Categorical variables. Uncertainty. Missing data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 551-L01	DSCI_V	551	L01	Descriptive Statistics and Probability for Data Science	W1	Descriptive statistics including measures of location and spread. Random variables, distributions, and parameters. Categorical variables. Uncertainty. Missing data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 551-L02	DSCI_V	551	L02	Descriptive Statistics and Probability for Data Science	W1	Descriptive statistics including measures of location and spread. Random variables, distributions, and parameters. Categorical variables. Uncertainty. Missing data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 551-L03	DSCI_V	551	L03	Descriptive Statistics and Probability for Data Science	W1	Descriptive statistics including measures of location and spread. Random variables, distributions, and parameters. Categorical variables. Uncertainty. Missing data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 551-L04	DSCI_V	551	L04	Descriptive Statistics and Probability for Data Science	W1	Descriptive statistics including measures of location and spread. Random variables, distributions, and parameters. Categorical variables. Uncertainty. Missing data. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 552-001	DSCI_V	552	001	Statistical Inference and Computation I	W1	Random variables, parameters, observed data, statistics (distinctions and connections). Estimation: point and interval. Two-group comparisons, frequentist version. Simulation-based approaches. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 551.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 552-002	DSCI_V	552	002	Statistical Inference and Computation I	W1	Random variables, parameters, observed data, statistics (distinctions and connections). Estimation: point and interval. Two-group comparisons, frequentist version. Simulation-based approaches. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 551.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 552-L01	DSCI_V	552	L01	Statistical Inference and Computation I	W1	Random variables, parameters, observed data, statistics (distinctions and connections). Estimation: point and interval. Two-group comparisons, frequentist version. Simulation-based approaches. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 551.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 552-L02	DSCI_V	552	L02	Statistical Inference and Computation I	W1	Random variables, parameters, observed data, statistics (distinctions and connections). Estimation: point and interval. Two-group comparisons, frequentist version. Simulation-based approaches. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 551.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 552-L03	DSCI_V	552	L03	Statistical Inference and Computation I	W1	Random variables, parameters, observed data, statistics (distinctions and connections). Estimation: point and interval. Two-group comparisons, frequentist version. Simulation-based approaches. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 551.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 552-L04	DSCI_V	552	L04	Statistical Inference and Computation I	W1	Random variables, parameters, observed data, statistics (distinctions and connections). Estimation: point and interval. Two-group comparisons, frequentist version. Simulation-based approaches. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 551.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 553-001	DSCI_V	553	001	Statistical Inference and Computation II	W2	Multiple hypothesis testing, false discovery rate. Two-group comparisons, Bayesian paradigm. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 553-002	DSCI_V	553	002	Statistical Inference and Computation II	W2	Multiple hypothesis testing, false discovery rate. Two-group comparisons, Bayesian paradigm. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 553-L01	DSCI_V	553	L01	Statistical Inference and Computation II	W2	Multiple hypothesis testing, false discovery rate. Two-group comparisons, Bayesian paradigm. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.

DSCI_V 553-L02	DSCI_V	553	L02	Statistical Inference and Computation II	W2	Multiple hypothesis testing, false discovery rate. Two-group comparisons, Bayesian paradigm. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 553-L03	DSCI_V	553	L03	Statistical Inference and Computation II	W2	Multiple hypothesis testing, false discovery rate. Two-group comparisons, Bayesian paradigm. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 553-L04	DSCI_V	553	L04	Statistical Inference and Computation II	W2	Multiple hypothesis testing, false discovery rate. Two-group comparisons, Bayesian paradigm. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 554-001	DSCI_V	554	001	Experimentation and Causal Inference	W2	Randomization. A/B testing. Blocked designs. Orthogonality. Batch effects, confounding. Causality. Contemporary examples. Simulations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 553, DSCI 561.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 554-002	DSCI_V	554	002	Experimentation and Causal Inference	W2	Randomization. A/B testing. Blocked designs. Orthogonality. Batch effects, confounding. Causality. Contemporary examples. Simulations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 553, DSCI 561.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 554-L01	DSCI_V	554	L01	Experimentation and Causal Inference	W2	Randomization. A/B testing. Blocked designs. Orthogonality. Batch effects, confounding. Causality. Contemporary examples. Simulations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 553, DSCI 561.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 554-L02	DSCI_V	554	L02	Experimentation and Causal Inference	W2	Randomization. A/B testing. Blocked designs. Orthogonality. Batch effects, confounding. Causality. Contemporary examples. Simulations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 553, DSCI 561.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 554-L03	DSCI_V	554	L03	Experimentation and Causal Inference	W2	Randomization. A/B testing. Blocked designs. Orthogonality. Batch effects, confounding. Causality. Contemporary examples. Simulations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 553, DSCI 561.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 554-L04	DSCI_V	554	L04	Experimentation and Causal Inference	W2	Randomization. A/B testing. Blocked designs. Orthogonality. Batch effects, confounding. Causality. Contemporary examples. Simulations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 553, DSCI 561.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 561-001	DSCI_V	561	001	Regression I	W1	Linear models: continuous response; one or more categorical covariates and/or one or more continuous covariates. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 561-002	DSCI_V	561	002	Regression I	W1	Linear models: continuous response; one or more categorical covariates and/or one or more continuous covariates. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 561-L01	DSCI_V	561	L01	Regression I	W1	Linear models: continuous response; one or more categorical covariates and/or one or more continuous covariates. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 561-L02	DSCI_V	561	L02	Regression I	W1	Linear models: continuous response; one or more categorical covariates and/or one or more continuous covariates. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 561-L03	DSCI_V	561	L03	Regression I	W1	Linear models: continuous response; one or more categorical covariates and/or one or more continuous covariates. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 561-L04	DSCI_V	561	L04	Regression I	W1	Linear models: continuous response; one or more categorical covariates and/or one or more continuous covariates. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 552.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 562-001	DSCI_V	562	001	Regression II	W2	Non-parametric regression and smoothing. Data-driven parameter selection. Robust regression. Mixed effects. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 561.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 562-002	DSCI_V	562	002	Regression II	W2	Non-parametric regression and smoothing. Data-driven parameter selection. Robust regression. Mixed effects. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 561.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 562-L01	DSCI_V	562	L01	Regression II	W2	Non-parametric regression and smoothing. Data-driven parameter selection. Robust regression. Mixed effects. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 561.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 562-L02	DSCI_V	562	L02	Regression II	W2	Non-parametric regression and smoothing. Data-driven parameter selection. Robust regression. Mixed effects. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 561.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 562-L03	DSCI_V	562	L03	Regression II	W2	Non-parametric regression and smoothing. Data-driven parameter selection. Robust regression. Mixed effects. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 561.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 562-L04	DSCI_V	562	L04	Regression II	W2	Non-parametric regression and smoothing. Data-driven parameter selection. Robust regression. Mixed effects. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 561.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 563-001	DSCI_V	563	001	Unsupervised Learning	W2	Unsupervised learning. K-means/medoids. Model-based clustering. Expectation-maximization algorithm. Hierarchical clustering. Dimension reduction. Matrix decomposition. Heatmaps, contour plots, dendrograms. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 563-002	DSCI_V	563	002	Unsupervised Learning	W2	Unsupervised learning. K-means/medoids. Model-based clustering. Expectation-maximization algorithm. Hierarchical clustering. Dimension reduction. Matrix decomposition. Heatmaps, contour plots, dendrograms. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.



DSCI_V 573-001	DSCI_V	573	001	Feature and Model Selection	W1	Performance of a classification model. Generalization error, overfitting of training data. Shrinkage, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross validation. Bootstrapping. Receiver Operating Characteristic curve. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 573-002	DSCI_V	573	002	Feature and Model Selection	W1	Performance of a classification model. Generalization error, overfitting of training data. Shrinkage, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross validation. Bootstrapping. Receiver Operating Characteristic curve. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 573-L01	DSCI_V	573	L01	Feature and Model Selection	W1	Performance of a classification model. Generalization error, overfitting of training data. Shrinkage, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross validation. Bootstrapping. Receiver Operating Characteristic curve. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 573-L02	DSCI_V	573	L02	Feature and Model Selection	W1	Performance of a classification model. Generalization error, overfitting of training data. Shrinkage, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross validation. Bootstrapping. Receiver Operating Characteristic curve. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 573-L03	DSCI_V	573	L03	Feature and Model Selection	W1	Performance of a classification model. Generalization error, overfitting of training data. Shrinkage, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross validation. Bootstrapping. Receiver Operating Characteristic curve. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 573-L04	DSCI_V	573	L04	Feature and Model Selection	W1	Performance of a classification model. Generalization error, overfitting of training data. Shrinkage, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross validation. Bootstrapping. Receiver Operating Characteristic curve. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 574-001	DSCI_V	574	001	Spatial and Temporal Models	W2	Time series. State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
DSCI_V 574-002	DSCI_V	574	002	Spatial and Temporal Models	W2	Time series. State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
DSCI_V 574-L01	DSCI_V	574	L01	Spatial and Temporal Models	W2	Time series. State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 574-L02	DSCI_V	574	L02	Spatial and Temporal Models	W2	Time series. State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 574-L03	DSCI_V	574	L03	Spatial and Temporal Models	W2	Time series. State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 574-L04	DSCI_V	574	L04	Spatial and Temporal Models	W2	Time series. State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
DSCI_V 575-001	DSCI_V	575	001	Advanced Machine Learning	W2	Neural networks trained with backpropagation. Deep learning. Overfitting and underfitting. Active data acquisition. Hyperparameter optimization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
DSCI_V 575-002	DSCI_V	575	002	Advanced Machine Learning	W2	Neural networks trained with backpropagation. Deep learning. Overfitting and underfitting. Active data acquisition. Hyperparameter optimization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
DSCI_V 575-L01	DSCI_V	575	L01	Advanced Machine Learning	W2	Neural networks trained with backpropagation. Deep learning. Overfitting and underfitting. Active data acquisition. Hyperparameter optimization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
DSCI_V 575-L02	DSCI_V	575	L02	Advanced Machine Learning	W2	Neural networks trained with backpropagation. Deep learning. Overfitting and underfitting. Active data acquisition. Hyperparameter optimization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
DSCI_V 575-L03	DSCI_V	575	L03	Advanced Machine Learning	W2	Neural networks trained with backpropagation. Deep learning. Overfitting and underfitting. Active data acquisition. Hyperparameter optimization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
DSCI_V 575-L04	DSCI_V	575	L04	Advanced Machine Learning	W2	Neural networks trained with backpropagation. Deep learning. Overfitting and underfitting. Active data acquisition. Hyperparameter optimization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
ECED_V 400-63A	ECED_V	400	63A	Introduction to Early Childhood Education and Care	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ECED_V 400-63B	ECED_V	400	63B	Introduction to Early Childhood Education and Care	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ECED_V 400-63D	ECED_V	400	63D	Introduction to Early Childhood Education and Care	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged

ECED_V 401-63A	ECED_V	401	63A	Supporting Young Children's Health and Well-Being in Early Childhood Settings	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ECED_V 401-63B	ECED_V	401	63B	Supporting Young Children's Health and Well-Being in Early Childhood Settings	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ECED_V 401-63C	ECED_V	401	63C	Supporting Young Children's Health and Well-Being in Early Childhood Settings	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ECED_V 401-63D	ECED_V	401	63D	Supporting Young Children's Health and Well-Being in Early Childhood Settings	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ECED_V 405-A. 63A	ECED_V	405	A. 63A	Foundations of Curriculum and Instruction in Early Childhood Education	W1		Online Learning	Arranged	Arranged
ECED_V 405-A. 63C	ECED_V	405	A. 63C	Foundations of Curriculum and Instruction in Early Childhood Education	W2		Online Learning	Arranged	Arranged
ECED_V 406-63A	ECED_V	406	63A	Early Learning Curriculum in the Pre-School Years	W1	The development of pre-kindergarten programs with reference to recent research, theories of early learning, and curriculum trends and practices.	Online Learning	Arranged	Arranged
ECED_V 406-63C	ECED_V	406	63C	Early Learning Curriculum in the Pre-School Years	W2	The development of pre-kindergarten programs with reference to recent research, theories of early learning, and curriculum trends and practices.	Online Learning	Arranged	Arranged
ECED_V 406-63D	ECED_V	406	63D	Early Learning Curriculum in the Pre-School Years	W2	The development of pre-kindergarten programs with reference to recent research, theories of early learning, and curriculum trends and practices.	Online Learning	Arranged	Arranged
ECED_V 407-63A	ECED_V	407	63A	Supporting Early Learning in the Pre-School Years	W1	Planning and implementing pre-kindergarten learning experiences; resources, materials, curriculum integration, evaluation, scheduling, and classroom design.	Online Learning	Arranged	Arranged
ECED_V 407-63B	ECED_V	407	63B	Supporting Early Learning in the Pre-School Years	W1	Planning and implementing pre-kindergarten learning experiences; resources, materials, curriculum integration, evaluation, scheduling, and classroom design.	Online Learning	Arranged	Arranged
ECED_V 407-63C	ECED_V	407	63C	Supporting Early Learning in the Pre-School Years	W2	Planning and implementing pre-kindergarten learning experiences; resources, materials, curriculum integration, evaluation, scheduling, and classroom design.	Online Learning	Arranged	Arranged
ECED_V 407-63D	ECED_V	407	63D	Supporting Early Learning in the Pre-School Years	W2	Planning and implementing pre-kindergarten learning experiences; resources, materials, curriculum integration, evaluation, scheduling, and classroom design.	Online Learning	Arranged	Arranged
ECED_V 416-63A	ECED_V	416	63A	Kindergarten Curriculum	W1	The development of kindergarten programs with reference to recent research, theories of early learning, curriculum trends and practices, and the place of kindergarten in contemporary education.	Online Learning	Arranged	Arranged
ECED_V 417-63C	ECED_V	417	63C	Supporting Learning in the Kindergarten Year	W2	Designing environments, experiences, activities, instruction, and assessment to foster children's learning in the kindergarten year.	Online Learning	Arranged	Arranged
ECED_V 420-63A	ECED_V	420	63A	History of Early Childhood Education	W1	Political and social factors which influenced movements and trends in early childhood education in North America, pre-kindergarten through primary.	Online Learning	Arranged	Arranged
ECED_V 420-63B	ECED_V	420	63B	History of Early Childhood Education	W1	Political and social factors which influenced movements and trends in early childhood education in North America, pre-kindergarten through primary.	Online Learning	Arranged	Arranged
ECED_V 420-63C	ECED_V	420	63C	History of Early Childhood Education	W2	Political and social factors which influenced movements and trends in early childhood education in North America, pre-kindergarten through primary.	Online Learning	Arranged	Arranged
ECED_V 420-63D	ECED_V	420	63D	History of Early Childhood Education	W2	Political and social factors which influenced movements and trends in early childhood education in North America, pre-kindergarten through primary.	Online Learning	Arranged	Arranged
ECED_V 421-63A	ECED_V	421	63A	Supporting Young Children Through Home, School, and Community Relationships	W1		Online Learning	Arranged	Arranged
ECED_V 421-63C	ECED_V	421	63C	Supporting Young Children Through Home, School, and Community Relationships	W2		Online Learning	Arranged	Arranged
ECED_V 438-63A	ECED_V	438	63A	Observation and Documentation in Early Childhood Settings	W1		Online Learning	Arranged	Arranged
ECED_V 438-63B	ECED_V	438	63B	Observation and Documentation in Early Childhood Settings	W1		Online Learning	Arranged	Arranged

ECED_V 438-63C	ECED_V	438	63C	Observation and Documentation in Early Childhood Settings	W2		Online Learning	Arranged	Arranged
ECED_V 439-63A	ECED_V	439	63A	Assessment of Infants and Young Children with Special Needs	W1	(Formerly EPSE 420).	Online Learning	Arranged	Arranged
ECED_V 439-63C	ECED_V	439	63C	Assessment of Infants and Young Children with Special Needs	W2	(Formerly EPSE 420).	Online Learning	Arranged	Arranged
ECED_V 440-63A	ECED_V	440	63A	Supporting Social and Communication Development in Infants and Young Children with Special Needs	W1	(Formerly EPSE 440).	Online Learning	Arranged	Arranged
ECED_V 440-63C	ECED_V	440	63C	Supporting Social and Communication Development in Infants and Young Children with Special Needs	W2	(Formerly EPSE 440).	Online Learning	Arranged	Arranged
ECED_V 441-63A	ECED_V	441	63A	Early Intervention for Infants and Young Children with Sensory Loss and Motor Impairments	W1	(Formerly EPSE 441).	Online Learning	Arranged	Arranged
ECED_V 441-63C	ECED_V	441	63C	Early Intervention for Infants and Young Children with Sensory Loss and Motor Impairments	W2	(Formerly EPSE 441).	Online Learning	Arranged	Arranged
ECED_V 442-63A	ECED_V	442	63A	Supporting Indigenous Infants and Young Children within the Context of Their Communities	W1		Online Learning	Arranged	Arranged
ECED_V 442-63C	ECED_V	442	63C	Supporting Indigenous Infants and Young Children within the Context of Their Communities	W2		Online Learning	Arranged	Arranged
ECED_V 442-63D	ECED_V	442	63D	Supporting Indigenous Infants and Young Children within the Context of Their Communities	W2		Online Learning	Arranged	Arranged
ECED_V 480-B_63C	ECED_V	480	B B_63C	Selected Topics in Early Childhood Education	W2		Online Learning	Arranged	Arranged
ECED_V 490-61A	ECED_V	490	61A	Early Childhood Education Practicum & Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 438.	In Person Learning	Arranged	Arranged
ECED_V 490-62A	ECED_V	490	62A	Early Childhood Education Practicum & Seminar I	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 438.	In Person Learning	Arranged	Arranged
ECED_V 490-62B	ECED_V	490	62B	Early Childhood Education Practicum & Seminar I	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 438.	In Person Learning	Arranged	Arranged
ECED_V 491-61A	ECED_V	491	61A	Early Childhood Education Practicum & Seminar II	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.	In Person Learning	Arranged	Arranged
ECED_V 491-61B	ECED_V	491	61B	Early Childhood Education Practicum & Seminar II	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.	In Person Learning	Arranged	Arranged
ECED_V 491-62A	ECED_V	491	62A	Early Childhood Education Practicum & Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.	In Person Learning	Arranged	Arranged
ECED_V 495-61A	ECED_V	495	61A	Early Childhood Education Practicum & Seminar III	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 406, ECED 407, ECED 438, ECED 490, ECED 491, EPSE 406.	In Person Learning	Arranged	Arranged
ECED_V 495-62A	ECED_V	495	62A	Early Childhood Education Practicum & Seminar III	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 406, ECED 407, ECED 438, ECED 490, ECED 491, EPSE 406.	In Person Learning	Arranged	Arranged
ECED_V 495-62B	ECED_V	495	62B	Early Childhood Education Practicum & Seminar III	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 406, ECED 407, ECED 438, ECED 490, ECED 491, EPSE 406.	In Person Learning	Arranged	Arranged
ECED_V 508-A_051	ECED_V	508	A A_051	Review of Research in Early Childhood Education	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
ECED_V 508-B_62A	ECED_V	508	B B_62A	Review of Research in Early Childhood Education	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
ECED_V 530-B_052	ECED_V	530	B B_052	Early Childhood Development, Intervention, and Inclusion in Early Childhood Programs	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.

ECED_V 531-A_051	ECED_V	531	A	A_051	Supporting Young Children's Social Emotional Learning in Early Childhood Programs	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ECED_V 531-A_052	ECED_V	531	A	A_052	Supporting Young Children's Social Emotional Learning in Early Childhood Programs	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
ECED_V 532-051	ECED_V	532		051	Sociocultural Perspectives in Early Childhood Education	W1		In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
ECED_V 532-61A	ECED_V	532		61A	Sociocultural Perspectives in Early Childhood Education	W1		Online Learning	Arranged	Arranged
ECED_V 533-052	ECED_V	533		052	Leadership and Policy in Early Childhood Education	W2		In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
ECED_V 533-61A	ECED_V	533		61A	Leadership and Policy in Early Childhood Education	W1		Online Learning	Arranged	Arranged
ECED_V 565-A_052	ECED_V	565	A	A_052	Special Course in Early Childhood Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ECED_V 580-A_61A	ECED_V	580	A	A_61A	Problems in Early Childhood Education	W1	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
ECED_V 580-A_62A	ECED_V	580	A	A_62A	Problems in Early Childhood Education	W2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
ECED_V 580-B_051	ECED_V	580	B	B_051	Problems in Early Childhood Education	W1	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ECED_V 580-B_052	ECED_V	580	B	B_052	Problems in Early Childhood Education	W2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ECED_V 580-C_051	ECED_V	580	C	C_051	Problems in Early Childhood Education	W1	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ECED_V 590-E_62A	ECED_V	590	E	E_62A	Graduating Project	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ECED_V 599-A_051	ECED_V	599	A	A_051	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ECED_V 599-A_052	ECED_V	599	A	A_052	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ECED_V 599-A_053	ECED_V	599	A	A_053	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ECON_V 101-001	ECON_V	101		001	Principles of Microeconomics	W1	Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Credit will be granted for only one of ECON101 or ECON 310. Equivalency: ECON 310	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ECON_V 101-002	ECON_V	101		002	Principles of Microeconomics	W1	Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Credit will be granted for only one of ECON101 or ECON 310. Equivalency: ECON 310	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ECON_V 101-003	ECON_V	101		003	Principles of Microeconomics	W1	Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Credit will be granted for only one of ECON101 or ECON 310. Equivalency: ECON 310	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
ECON_V 101-004	ECON_V	101		004	Principles of Microeconomics	W2	Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Credit will be granted for only one of ECON101 or ECON 310. Equivalency: ECON 310	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ECON_V 101-011	ECON_V	101		011	Principles of Microeconomics	W1	Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Credit will be granted for only one of ECON101 or ECON 310. Equivalency: ECON 310	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 101-013	ECON_V	101		013	Principles of Microeconomics	W1	Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Credit will be granted for only one of ECON101 or ECON 310. Equivalency: ECON 310	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 101-L15	ECON_V	101		L15	Principles of Microeconomics	W1	Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Credit will be granted for only one of ECON101 or ECON 310. Equivalency: ECON 310	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.









ECON_V 226-001	ECON_V	226	001	Making Sense of Economic Data	W2	Techniques of introductory empirical economics with an emphasis on foundational econometric methods and answering economic questions using real-world data. Students will be expected to undertake applied work using a statistical programming tool. May not be taken for credit by students with fourth-year standing in ECON, or students already having credit for ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 226-L01	ECON_V	226	L01	Making Sense of Economic Data	W2	Techniques of introductory empirical economics with an emphasis on foundational econometric methods and answering economic questions using real-world data. Students will be expected to undertake applied work using a statistical programming tool. May not be taken for credit by students with fourth-year standing in ECON, or students already having credit for ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ECON_V 226-L02	ECON_V	226	L02	Making Sense of Economic Data	W2	Techniques of introductory empirical economics with an emphasis on foundational econometric methods and answering economic questions using real-world data. Students will be expected to undertake applied work using a statistical programming tool. May not be taken for credit by students with fourth-year standing in ECON, or students already having credit for ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ECON_V 226-L03	ECON_V	226	L03	Making Sense of Economic Data	W2	Techniques of introductory empirical economics with an emphasis on foundational econometric methods and answering economic questions using real-world data. Students will be expected to undertake applied work using a statistical programming tool. May not be taken for credit by students with fourth-year standing in ECON, or students already having credit for ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
ECON_V 226-L04	ECON_V	226	L04	Making Sense of Economic Data	W2	Techniques of introductory empirical economics with an emphasis on foundational econometric methods and answering economic questions using real-world data. Students will be expected to undertake applied work using a statistical programming tool. May not be taken for credit by students with fourth-year standing in ECON, or students already having credit for ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
ECON_V 227-001	ECON_V	227	001	Data in Economics	W1	Application-driven introduction to the analysis of economic data. Descriptive analysis, causality, experimental and observational data, hypothesis testing. Restricted to BIE students. Credit will be granted for only one of ECON 226 and ECON 227. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 227-L01	ECON_V	227	L01	Data in Economics	W1	Application-driven introduction to the analysis of economic data. Descriptive analysis, causality, experimental and observational data, hypothesis testing. Restricted to BIE students. Credit will be granted for only one of ECON 226 and ECON 227. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
ECON_V 227-L02	ECON_V	227	L02	Data in Economics	W1	Application-driven introduction to the analysis of economic data. Descriptive analysis, causality, experimental and observational data, hypothesis testing. Restricted to BIE students. Credit will be granted for only one of ECON 226 and ECON 227. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
ECON_V 255-001	ECON_V	255	001	Understanding Globalization	W2	Social and economic implications for both rich and poor countries of lowered barriers to the international flows of information, capital, labour and goods. May not be taken for credit by students with fourth-year standing in Bachelor of International Economics or any of the following Economics programs offered by VSE: Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 255-002	ECON_V	255	002	Understanding Globalization	W2	Social and economic implications for both rich and poor countries of lowered barriers to the international flows of information, capital, labour and goods. May not be taken for credit by students with fourth-year standing in Bachelor of International Economics or any of the following Economics programs offered by VSE: Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ECON_V 255-L01	ECON_V	255	L01	Understanding Globalization	W2	Social and economic implications for both rich and poor countries of lowered barriers to the international flows of information, capital, labour and goods. May not be taken for credit by students with fourth-year standing in Bachelor of International Economics or any of the following Economics programs offered by VSE: Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
ECON_V 255-L02	ECON_V	255	L02	Understanding Globalization	W2	Social and economic implications for both rich and poor countries of lowered barriers to the international flows of information, capital, labour and goods. May not be taken for credit by students with fourth-year standing in Bachelor of International Economics or any of the following Economics programs offered by VSE: Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
ECON_V 255-L03	ECON_V	255	L03	Understanding Globalization	W2	Social and economic implications for both rich and poor countries of lowered barriers to the international flows of information, capital, labour and goods. May not be taken for credit by students with fourth-year standing in Bachelor of International Economics or any of the following Economics programs offered by VSE: Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Wed	6:00 p.m. - 7:00 p.m.
ECON_V 255-L04	ECON_V	255	L04	Understanding Globalization	W2	Social and economic implications for both rich and poor countries of lowered barriers to the international flows of information, capital, labour and goods. May not be taken for credit by students with fourth-year standing in Bachelor of International Economics or any of the following Economics programs offered by VSE: Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Wed	6:00 p.m. - 7:00 p.m.
ECON_V 255-L05	ECON_V	255	L05	Understanding Globalization	W2	Social and economic implications for both rich and poor countries of lowered barriers to the international flows of information, capital, labour and goods. May not be taken for credit by students with fourth-year standing in Bachelor of International Economics or any of the following Economics programs offered by VSE: Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.





ECON_V 305-001	ECON_V	305	001	Honours Intermediate Macroeconomic Analysis I	W1	Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 305, or ECON 309. Prerequisite: A score of 68% or higher in one of ECON 101, ECON 310 and a score of 68% or higher in one of ECON 102, ECON 311 and a score of 68% or higher in one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 305-L01	ECON_V	305	L01	Honours Intermediate Macroeconomic Analysis I	W1	Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 305, or ECON 309. Prerequisite: A score of 68% or higher in one of ECON 101, ECON 310 and a score of 68% or higher in one of ECON 102, ECON 311 and a score of 68% or higher in one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
ECON_V 306-001	ECON_V	306	001	Honours Intermediate Microeconomics II	W2	Microeconomic Theory with computational applications. Topics may include risk and uncertainty, information economics, game theory, bargaining, auctions. Knowledge of python and Julia is useful but not required. Credit will be granted for only one of ECON 303 or ECON 306. Prerequisite: A score of 68% or higher in ECON 304. Permission of the School is also acceptable.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 306-L01	ECON_V	306	L01	Honours Intermediate Microeconomics II	W2	Microeconomic Theory with computational applications. Topics may include risk and uncertainty, information economics, game theory, bargaining, auctions. Knowledge of python and Julia is useful but not required. Credit will be granted for only one of ECON 303 or ECON 306. Prerequisite: A score of 68% or higher in ECON 304. Permission of the School is also acceptable.	In Person Learning	Fri	5:00 p.m. - 6:00 p.m.
ECON_V 307-001	ECON_V	307	001	Honours Intermediate Macroeconomics II	W2	Theories of economic growth and the business cycle. Intended primarily for prospective honours and other qualified students. Prerequisite: A score of 68% or higher in ECON 305. Or permission of the School.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 307-L01	ECON_V	307	L01	Honours Intermediate Macroeconomics II	W2	Theories of economic growth and the business cycle. Intended primarily for prospective honours and other qualified students. Prerequisite: A score of 68% or higher in ECON 305. Or permission of the School.	In Person Learning	Arranged	Arranged
ECON_V 309-001	ECON_V	309	001	Intermediate Open Economy Macroeconomics	W2	The aggregate economy with emphasis on macroeconomic policy and international economic growth, money and inflation, unemployment, business cycles, and macroeconomic stabilization policy under fixed and flexible exchange rates. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 302, ECON 305 or ECON 309. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 309-L01	ECON_V	309	L01	Intermediate Open Economy Macroeconomics	W2	The aggregate economy with emphasis on macroeconomic policy and international economic growth, money and inflation, unemployment, business cycles, and macroeconomic stabilization policy under fixed and flexible exchange rates. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 302, ECON 305 or ECON 309. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
ECON_V 309-L02	ECON_V	309	L02	Intermediate Open Economy Macroeconomics	W2	The aggregate economy with emphasis on macroeconomic policy and international economic growth, money and inflation, unemployment, business cycles, and macroeconomic stabilization policy under fixed and flexible exchange rates. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 302, ECON 305 or ECON 309. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
ECON_V 310-001	ECON_V	310	001	Principles of Microeconomics	W2	The scope of this course is approximately the same as that of ECON101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310 or ECON 101. Prerequisite: Third-year, fourth-year, or graduate standing.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ECON_V 310-L01	ECON_V	310	L01	Principles of Microeconomics	W2	The scope of this course is approximately the same as that of ECON101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310 or ECON 101. Prerequisite: Third-year, fourth-year, or graduate standing.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ECON_V 310-L02	ECON_V	310	L02	Principles of Microeconomics	W2	The scope of this course is approximately the same as that of ECON101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310 or ECON 101. Prerequisite: Third-year, fourth-year, or graduate standing.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ECON_V 310-L03	ECON_V	310	L03	Principles of Microeconomics	W2	The scope of this course is approximately the same as that of ECON101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310 or ECON 101. Prerequisite: Third-year, fourth-year, or graduate standing.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
ECON_V 310-L04	ECON_V	310	L04	Principles of Microeconomics	W2	The scope of this course is approximately the same as that of ECON101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310 or ECON 101. Prerequisite: Third-year, fourth-year, or graduate standing.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
ECON_V 310-L05	ECON_V	310	L05	Principles of Microeconomics	W2	The scope of this course is approximately the same as that of ECON101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310 or ECON 101. Prerequisite: Third-year, fourth-year, or graduate standing.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
ECON_V 310-L06	ECON_V	310	L06	Principles of Microeconomics	W2	The scope of this course is approximately the same as that of ECON101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310 or ECON 101. Prerequisite: Third-year, fourth-year, or graduate standing.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
ECON_V 311-001	ECON_V	311	001	Principles of Macroeconomics	W2	The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 102. Prerequisite: Third-year, fourth-year or graduate standing.	In Person Learning	Arranged	Arranged
ECON_V 311-L01	ECON_V	311	L01	Principles of Macroeconomics	W2	The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 102. Prerequisite: Third-year, fourth-year or graduate standing.	In Person Learning	Arranged	Arranged

ECON_V 311-L02	ECON_V	311	L02	Principles of Macroeconomics	W2	The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 102. Prerequisite: Third-year, fourth-year or graduate standing.	In Person Learning	Arranged	Arranged
ECON_V 311-L03	ECON_V	311	L03	Principles of Macroeconomics	W2	The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 102. Prerequisite: Third-year, fourth-year or graduate standing.	In Person Learning	Arranged	Arranged
ECON_V 311-L04	ECON_V	311	L04	Principles of Macroeconomics	W2	The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 102. Prerequisite: Third-year, fourth-year or graduate standing.	In Person Learning	Arranged	Arranged
ECON_V 311-L05	ECON_V	311	L05	Principles of Macroeconomics	W2	The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 102. Prerequisite: Third-year, fourth-year or graduate standing.	In Person Learning	Arranged	Arranged
ECON_V 311-L06	ECON_V	311	L06	Principles of Macroeconomics	W2	The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 102. Prerequisite: Third-year, fourth-year or graduate standing.	In Person Learning	Arranged	Arranged
ECON_V 315-001	ECON_V	315	001	Intermediate Microeconomics I	W1	Consumer behaviour, producer theory, exchange, monopoly, oligopoly, externalities, public goods, general equilibrium and welfare economics. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 315, ECON 301, ECON 304, COMM 295, FRE 295. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 315-L01	ECON_V	315	L01	Intermediate Microeconomics I	W1	Consumer behaviour, producer theory, exchange, monopoly, oligopoly, externalities, public goods, general equilibrium and welfare economics. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 315, ECON 301, ECON 304, COMM 295, FRE 295. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ECON_V 315-L02	ECON_V	315	L02	Intermediate Microeconomics I	W1	Consumer behaviour, producer theory, exchange, monopoly, oligopoly, externalities, public goods, general equilibrium and welfare economics. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 315, ECON 301, ECON 304, COMM 295, FRE 295. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
ECON_V 316-001	ECON_V	316	001	Intermediate Microeconomics II	W2	Advanced topics in intermediate microeconomics: risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 316 or ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 301, ECON 304, ECON 315.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 316-L01	ECON_V	316	L01	Intermediate Microeconomics II	W2	Advanced topics in intermediate microeconomics: risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 316 or ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 301, ECON 304, ECON 315.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ECON_V 316-L02	ECON_V	316	L02	Intermediate Microeconomics II	W2	Advanced topics in intermediate microeconomics: risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 316 or ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 301, ECON 304, ECON 315.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
ECON_V 317-001	ECON_V	317	001	Poverty and Inequality	W2	Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 317-002	ECON_V	317	002	Poverty and Inequality	W1	Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 317-L01	ECON_V	317	L01	Poverty and Inequality	W2	Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Arranged	Arranged
ECON_V 317-L02	ECON_V	317	L02	Poverty and Inequality	W1	Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Arranged	Arranged
ECON_V 318-001	ECON_V	318	001	History and Philosophy of Economics from Aristotle to Adam Smith	W1	The development of economic thought from Aristotle to Adam Smith, focusing on the conceptual foundations of economics, particularly the problems of value, distribution, and economic growth. Credit will be granted for only one of ECON 318 or PHIL 362 Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311. Equivalency: PHIL 362	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ECON_V 319-001	ECON_V	319	001	History and Philosophy of Economics from Ricardo to Keynes	W2	The development of economic thought from David Ricardo up to the present including such figures as Malthus, Mill, Jevons, and Keynes, focusing on the conceptual foundations of economics, particularly the problems of value, distribution and growth. Credit will be granted for only one of ECON 319 or PHIL 363. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311. Equivalency: PHIL 363	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ECON_V 323-001	ECON_V	323	001	Quantitative Economic Modelling with Data Science Applications	W1	Computational tools used in modern economics. Including application of data science in economics; visualization and manipulation of economic data; solving and simulating dynamic economic models. Credit will be granted for only one of ECON 323, CPSC 110, or CPSC 107. One course in second-year linear algebra such as MATH 221 or MATH 223 is strongly recommended, but not required. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.

ECON_V 323-002	ECON_V	323	002	Quantitative Economic Modelling with Data Science Applications	W2	Computational tools used in modern economics. Including application of data science in economics; visualization and manipulation of economic data; solving and simulating dynamic economic models. Credit will be granted for only one of ECON 323, CPSC 110, or CPSC 107. One course in second-year linear algebra such as MATH 221 or MATH 223 is strongly recommended, but not required. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 323-003	ECON_V	323	003	Quantitative Economic Modelling with Data Science Applications	W2	Computational tools used in modern economics. Including application of data science in economics; visualization and manipulation of economic data; solving and simulating dynamic economic models. Credit will be granted for only one of ECON 323, CPSC 110, or CPSC 107. One course in second-year linear algebra such as MATH 221 or MATH 223 is strongly recommended, but not required. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ECON_V 325-001	ECON_V	325	001	Introduction to Econometrics I	W1	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 325-002	ECON_V	325	002	Introduction to Econometrics I	W2	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Arranged	Arranged
ECON_V 325-003	ECON_V	325	003	Introduction to Econometrics I	W2	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ECON_V 325-L01	ECON_V	325	L01	Introduction to Econometrics I	W1	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
ECON_V 325-L02	ECON_V	325	L02	Introduction to Econometrics I	W1	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Thu	6:00 p.m. - 7:00 p.m.
ECON_V 325-L03	ECON_V	325	L03	Introduction to Econometrics I	W2	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Arranged	Arranged
ECON_V 325-L04	ECON_V	325	L04	Introduction to Econometrics I	W2	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Arranged	Arranged
ECON_V 325-L05	ECON_V	325	L05	Introduction to Econometrics I	W2	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
ECON_V 325-L06	ECON_V	325	L06	Introduction to Econometrics I	W2	Essentials of probability and statistics for applied work in economics. Topics include fundamentals of probability and statistical inference including estimation and hypothesis testing, and simple linear regression models. Credit will only be granted for one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
ECON_V 326-001	ECON_V	326	001	Introduction to Econometrics II	W1	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 326-002	ECON_V	326	002	Introduction to Econometrics II	W1	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

ECON_V 326-003	ECON_V	326	003	Introduction to Econometrics II	W2	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 326-L01	ECON_V	326	L01	Introduction to Econometrics II	W1	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Tue	6:00 p.m. - 7:00 p.m.
ECON_V 326-L02	ECON_V	326	L02	Introduction to Econometrics II	W1	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
ECON_V 326-L03	ECON_V	326	L03	Introduction to Econometrics II	W1	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
ECON_V 326-L04	ECON_V	326	L04	Introduction to Econometrics II	W1	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Thu	6:00 p.m. - 7:00 p.m.
ECON_V 326-L05	ECON_V	326	L05	Introduction to Econometrics II	W2	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
ECON_V 326-L06	ECON_V	326	L06	Introduction to Econometrics II	W2	Methods of empirical economic research. Topics include multiple linear regression models, with a focus on regression diagnostics, prediction, statistical inference, and interpretations. Students will be required to learn to apply empirical methods using a statistical programming tool. Credit will only be granted for one of ECON 326, ECON 328, STAT 306. Prerequisite: All of ECON 101, 102; One of ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
ECON_V 327-001	ECON_V	327	001	Introduction to Empirical Methods	W1	Basic tools for the statistical analysis of economic data. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311; and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184; and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 327-L01	ECON_V	327	L01	Introduction to Empirical Methods	W1	Basic tools for the statistical analysis of economic data. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311; and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184; and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Mon	5:00 p.m. - 6:00 p.m.
ECON_V 327-L02	ECON_V	327	L02	Introduction to Empirical Methods	W1	Basic tools for the statistical analysis of economic data. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 325, ECON 327, COMM 191, STAT 200, STAT 203, STAT 241, STAT 251. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311; and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184; and one of MATH 101, MATH 103, MATH 105, MATH 121.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
ECON_V 328-001	ECON_V	328	001	Methods of Empirical Research	W2	Empirical tools used in applied research, with emphasis on the linear regression model. Registration restricted to students in the Bachelor of International Economics program. Credit will be granted for only one of ECON 326, ECON 328, STAT 306, or LFS 252. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 325, ECON 327.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 328-L01	ECON_V	328	L01	Methods of Empirical Research	W2	Empirical tools used in applied research, with emphasis on the linear regression model. Registration restricted to students in the Bachelor of International Economics program. Credit will be granted for only one of ECON 326, ECON 328, STAT 306, or LFS 252. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 325, ECON 327.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
ECON_V 328-L02	ECON_V	328	L02	Methods of Empirical Research	W2	Empirical tools used in applied research, with emphasis on the linear regression model. Registration restricted to students in the Bachelor of International Economics program. Credit will be granted for only one of ECON 326, ECON 328, STAT 306, or LFS 252. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 325, ECON 327.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
ECON_V 333-001	ECON_V	333	001	Economic History of Europe from the Paleolithic to the Industrial Revolution	W1	The conditions and causes of long run growth from nomadism to agriculture to industrialized states, including institutions, geography, culture, colonialism, and slave trades. Determinants of the Neolithic, consumer and industrial revolutions, demographic transition and first era of globalization. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 333-002	ECON_V	333	002	Economic History of Europe from the Paleolithic to the Industrial Revolution	W1	The conditions and causes of long run growth from nomadism to agriculture to industrialized states, including institutions, geography, culture, colonialism, and slave trades. Determinants of the Neolithic, consumer and industrial revolutions, demographic transition and first era of globalization. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	Hybrid Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 335-001	ECON_V	335	001	Fertility, Families and Human Migration	W1	Traditional fertility and mortality patterns, demographic transition, catastrophes, well-being and nutrition, international and internal migration, epidemics and growth spurts. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

ECON_V 345-001	ECON_V	345	001	Money and Banking	W1	Financial markets and financial institutions in theory and practice; structure and development of the Canadian financial system; development and theory of the regulation of the financial system; process of monetary control; theory and history of central banking and monetary policy. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ECON_V 345-002	ECON_V	345	002	Money and Banking	W2	Financial markets and financial institutions in theory and practice; structure and development of the Canadian financial system; development and theory of the regulation of the financial system; process of monetary control; theory and history of central banking and monetary policy. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 345-003	ECON_V	345	003	Money and Banking	W2	Financial markets and financial institutions in theory and practice; structure and development of the Canadian financial system; development and theory of the regulation of the financial system; process of monetary control; theory and history of central banking and monetary policy. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ECON_V 351-001	ECON_V	351	001	Sex and Gender in the Economy	W1	Application of economic analysis to marriage, fertility and health, gender inequality in labour markets and unpaid caregiving; the application of sex and gender-based policy analysis to topics related to employment, and technological and social change in current and historical perspectives. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 355-001	ECON_V	355	001	Introduction to International Trade	W1	The determinants of trade patterns, trade policy, tariff and non-tariff barriers to trade, political economy of protectionism, bilateral and multilateral trade disputes, trade liberalization, trade and development. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 355-002	ECON_V	355	002	Introduction to International Trade	W2	The determinants of trade patterns, trade policy, tariff and non-tariff barriers to trade, political economy of protectionism, bilateral and multilateral trade disputes, trade liberalization, trade and development. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 355-003	ECON_V	355	003	Introduction to International Trade	W2	The determinants of trade patterns, trade policy, tariff and non-tariff barriers to trade, political economy of protectionism, bilateral and multilateral trade disputes, trade liberalization, trade and development. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
ECON_V 355-004	ECON_V	355	004	Introduction to International Trade	W1	The determinants of trade patterns, trade policy, tariff and non-tariff barriers to trade, political economy of protectionism, bilateral and multilateral trade disputes, trade liberalization, trade and development. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ECON_V 356-001	ECON_V	356	001	Introduction to International Finance	W1	Exchange rate policy regimes; international financial organizations; the interaction between monetary policy and exchange rate regimes; financial crises. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ECON_V 356-002	ECON_V	356	002	Introduction to International Finance	W2	Exchange rate policy regimes; international financial organizations; the interaction between monetary policy and exchange rate regimes; financial crises. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ECON_V 356-003	ECON_V	356	003	Introduction to International Finance	W2	Exchange rate policy regimes; international financial organizations; the interaction between monetary policy and exchange rate regimes; financial crises. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 370-001	ECON_V	370	001	Benefit-Cost Analysis and the Economics of Project Evaluation	W2	Techniques and problems in benefit-cost analysis of public projects. Examination of alternative approaches to public decision-making such as cost-effectiveness analysis and multiple-objective frameworks. Case studies of projects in the areas of natural resources, the environment, human resources, public services, and transportation. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ECON_V 370-002	ECON_V	370	002	Benefit-Cost Analysis and the Economics of Project Evaluation	W1	Techniques and problems in benefit-cost analysis of public projects. Examination of alternative approaches to public decision-making such as cost-effectiveness analysis and multiple-objective frameworks. Case studies of projects in the areas of natural resources, the environment, human resources, public services, and transportation. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ECON_V 371-001	ECON_V	371	001	Economics of the Environment	W1	Economic analysis applied to various environmental issues, including sustainable development, quality of life, and environmental impacts of specific industrial and consumption activities. The design and implementation of government policies. Global environmental effects of human economic activity. Credit will be granted for only one of COEC 475, COMM 487, or ECON 371. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 371-002	ECON_V	371	002	Economics of the Environment	W1	Economic analysis applied to various environmental issues, including sustainable development, quality of life, and environmental impacts of specific industrial and consumption activities. The design and implementation of government policies. Global environmental effects of human economic activity. Credit will be granted for only one of COEC 475, COMM 487, or ECON 371. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 371-003	ECON_V	371	003	Economics of the Environment	W2	Economic analysis applied to various environmental issues, including sustainable development, quality of life, and environmental impacts of specific industrial and consumption activities. The design and implementation of government policies. Global environmental effects of human economic activity. Credit will be granted for only one of COEC 475, COMM 487, or ECON 371. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ECON_V 374-001	ECON_V	374	001	Land Economics	W1	Economic analysis applied to problems of land use. Rent theory. Land valuation. Land conservation. Techniques for assessing economic efficiency of land use. Effects of institutions and public policies on land use. Credit will be granted for only one of ECON 374 or FRE 374. Prerequisite: One of ECON 101, ECON 310. Equivalency: FRE 374	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 390-001	ECON_V	390	001	Introduction to Economic Research	W1	Selected topics in economic research. Application of research methods to economic data. Credit will be granted for only one of ECON 390, ECON 490, ECON 494, ECON 495, or ECON 499. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ECON_V 390-002	ECON_V	390	002	Introduction to Economic Research	W2	Selected topics in economic research. Application of research methods to economic data. Credit will be granted for only one of ECON 390, ECON 490, ECON 494, ECON 495, or ECON 499. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ECON_V 398-001	ECON_V	398	001	Introduction to Causal Methods	W2	Theory and practice of the analytical application of economics. Causality, empirical analysis, and the application of theoretical models through engagement in applied work. Prerequisite: Either (a) one of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of STAT 200, STAT 241, STAT 251, COMM 291, FRST 231; or (b) one of ECON 226, ECON 325, ECON 326, ECON 327.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

ECON_V 398-L01	ECON_V	398	L01	Introduction to Causal Methods	W2	Theory and practice of the analytical application of economics. Causality, empirical analysis, and the application of theoretical models through engagement in applied work. Prerequisite: Either (a) one of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of STAT 200, STAT 241, STAT 251, COMM 291, FRST 231; or (b) one of ECON 226, ECON 325, ECON 326, ECON 327.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
ECON_V 398-L02	ECON_V	398	L02	Introduction to Causal Methods	W2	Theory and practice of the analytical application of economics. Causality, empirical analysis, and the application of theoretical models through engagement in applied work. Prerequisite: Either (a) one of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of STAT 200, STAT 241, STAT 251, COMM 291, FRST 231; or (b) one of ECON 226, ECON 325, ECON 326, ECON 327.	In Person Learning	Fri	5:00 p.m. - 6:00 p.m.
ECON_V 408-001	ECON_V	408	001	Computational Methods in Macroeconomics	W2	Computational tools and algorithms used in macroeconomics and financial economics including applications to unemployment, inequality, asset pricing, and economic growth. Prerequisite: One of ECON 301, ECON 304, ECON 315 and one of ECON 323, CPSC 103, CPSC 107, CPSC 110, CPSC 301, MATH 210, COMM 337, PHYS 210, EOCS 211, APSC 160 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ECON_V 421-001	ECON_V	421	001	Introduction to Game Theory and Applications	W1	Principles of rational behaviour in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law and biology. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ECON_V 421-L01	ECON_V	421	L01	Introduction to Game Theory and Applications	W1	Principles of rational behaviour in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law and biology. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
ECON_V 425-001	ECON_V	425	001	Advanced Econometrics	W1	The study and analysis of advanced econometric models. Topics may include statistical inference on various models with nonlinearity and endogeneity, such as models with instrumental variables, discrete-choice models, panel regression models, models of causal inference, and machine learning methods. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 425-002	ECON_V	425	002	Advanced Econometrics	W2	The study and analysis of advanced econometric models. Topics may include statistical inference on various models with nonlinearity and endogeneity, such as models with instrumental variables, discrete-choice models, panel regression models, models of causal inference, and machine learning methods. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 425-L01	ECON_V	425	L01	Advanced Econometrics	W1	The study and analysis of advanced econometric models. Topics may include statistical inference on various models with nonlinearity and endogeneity, such as models with instrumental variables, discrete-choice models, panel regression models, models of causal inference, and machine learning methods. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
ECON_V 425-L02	ECON_V	425	L02	Advanced Econometrics	W2	The study and analysis of advanced econometric models. Topics may include statistical inference on various models with nonlinearity and endogeneity, such as models with instrumental variables, discrete-choice models, panel regression models, models of causal inference, and machine learning methods. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
ECON_V 441-001	ECON_V	441	001	The Process of Economic Development	W2	Industrialization of an agrarian economy; how the West grew rich; history of Japanese development; technical progress and growth; evolution of the patterns of income distribution; role of international trade in development; environment and development. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 441-002	ECON_V	441	002	The Process of Economic Development	W1	Industrialization of an agrarian economy; how the West grew rich; history of Japanese development; technical progress and growth; evolution of the patterns of income distribution; role of international trade in development; environment and development. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 442-001	ECON_V	442	001	Issues in Economic Development	W2	Divergence in the world economy, poverty, consequences of initial inequality, institutions, the impact of history, recent developmental experience--some case studies, labour and credit markets, the trickle down process. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 442-003	ECON_V	442	003	Issues in Economic Development	W2	Divergence in the world economy, poverty, consequences of initial inequality, institutions, the impact of history, recent developmental experience--some case studies, labour and credit markets, the trickle down process. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ECON_V 450-001	ECON_V	450	001	Economics of Taxation	W1	Economic analysis of taxation. Equity, efficiency, and incidence of government revenue sources such as personal and corporate income taxes, sales taxes, property taxes, payroll taxes, and environmental taxes. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ECON_V 455-002	ECON_V	455	002	International Trade	W2	International trade theory and policy in general equilibrium; relative costs, factor proportions, imperfect competition and the pattern of trade; efficiency and distribution. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 455-003	ECON_V	455	003	International Trade	W1	International trade theory and policy in general equilibrium; relative costs, factor proportions, imperfect competition and the pattern of trade; efficiency and distribution. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 455-L02	ECON_V	455	L02	International Trade	W2	International trade theory and policy in general equilibrium; relative costs, factor proportions, imperfect competition and the pattern of trade; efficiency and distribution. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
ECON_V 455-L03	ECON_V	455	L03	International Trade	W1	International trade theory and policy in general equilibrium; relative costs, factor proportions, imperfect competition and the pattern of trade; efficiency and distribution. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Arranged	Arranged
ECON_V 456-001	ECON_V	456	001	International Macroeconomics and Finance	W2	Balance of payments; market for foreign exchange; mechanism for adjusting the balance of payments; internal vs. external stability; current problems and issues. Credit will be granted for only one of ECON 456, COEC 377, or COMM 377. Prerequisite: One of ECON 302, ECON 305, ECON 309.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 456-002	ECON_V	456	002	International Macroeconomics and Finance	W2	Balance of payments; market for foreign exchange; mechanism for adjusting the balance of payments; internal vs. external stability; current problems and issues. Credit will be granted for only one of ECON 456, COEC 377, or COMM 377. Prerequisite: One of ECON 302, ECON 305, ECON 309.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 457-001	ECON_V	457	001	Seminar in International Economic Relations	W1	Selected topics focusing upon various issues arising in international economic relations. Open only to fourth-year students in the Major program in International Relations. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.

ECON_V 460-001	ECON_V	460	001	Economics of Labour Markets	W2	The theory of labour supply and demand for individuals, households, and firms. Policy implications for Canadian taxation and benefit programs. Employee selection, hiring and promotion. Credit may not be obtained for both ECON 360 and 460. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.	
ECON_V 465-001	ECON_V	465	001	Market Structure	W2	Market structure and social welfare, theory of price discrimination, equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models, theories of hierarchical organization, agency problem in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.	
ECON_V 465-DNU_001	ECON_V	465	DNU_001	Market Structure	W2	Market structure and social welfare, theory of price discrimination, equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models, theories of hierarchical organization, agency problem in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Arranged	Arranged	
ECON_V 465-DNU_L01	ECON_V	465	DNU_L01	Market Structure	W2	Market structure and social welfare, theory of price discrimination, equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models, theories of hierarchical organization, agency problem in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Arranged	Arranged	
ECON_V 465-L01	ECON_V	465	L01	Market Structure	W2	Market structure and social welfare, theory of price discrimination, equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models, theories of hierarchical organization, agency problem in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Fri	5:00 p.m. - 6:00 p.m.	
ECON_V 467-001	ECON_V	467	001	Economics of Crime and Policing	W1	The application of methods and theory to topics related to the criminal justice system with a specific focus on the role of policy in reducing crime rates, punitiveness and systemic inequality. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 326, ECON 328, STAT 306, LFS 252.	In Person Learning	Arranged	Arranged	
ECON_V 467-L01	ECON_V	467	L01	Economics of Crime and Policing	W1	The application of methods and theory to topics related to the criminal justice system with a specific focus on the role of policy in reducing crime rates, punitiveness and systemic inequality. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 326, ECON 328, STAT 306, LFS 252.	In Person Learning	Arranged	Arranged	
ECON_V 472-001	ECON_V	472	001	Economics of Renewable Resources	W1	Application of economic analysis to the management of renewable resources. Special attention is given to criteria for the optimal use of depleting resources such as forests and water. Other topics include public policy with regard to environmental quality, conservation, and outdoor recreation. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.	
ECON_V 485-001	ECON_V	485	001	Political Economy	W1	State and politics in economics. How states emerge, how dictators stay in power. Why groups engage in costly conflict, how countries turn into democracies and what its benefits are. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309 and one of ECON 326, ECON 328, STAT 306, LFS 252.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
ECON_V 490-001	ECON_V	490	001	Seminar in Applied Economics	W1	Selected problems and issues in the theory and practice of Economics. Each section will focus on a different field. Restricted to Economics Majors, and Combined Majors in Economics their final academic session. Credit will only be granted for one of ECON 390, ECON 490, ECON 494, ECON 495, ECON 499. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252 and one of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309. For additional possible prerequisites see individual course descriptions on the School's website.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.	
ECON_V 490-002	ECON_V	490	002	Seminar in Applied Economics	W1	Selected problems and issues in the theory and practice of Economics. Each section will focus on a different field. Restricted to Economics Majors, and Combined Majors in Economics their final academic session. Credit will only be granted for one of ECON 390, ECON 490, ECON 494, ECON 495, ECON 499. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252 and one of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309. For additional possible prerequisites see individual course descriptions on the School's website.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
ECON_V 490-003	ECON_V	490	003	Seminar in Applied Economics	W1	Selected problems and issues in the theory and practice of Economics. Each section will focus on a different field. Restricted to Economics Majors, and Combined Majors in Economics their final academic session. Credit will only be granted for one of ECON 390, ECON 490, ECON 494, ECON 495, ECON 499. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252 and one of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309. For additional possible prerequisites see individual course descriptions on the School's website.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
ECON_V 490-004	ECON_V	490	004	Seminar in Applied Economics	W2	Selected problems and issues in the theory and practice of Economics. Each section will focus on a different field. Restricted to Economics Majors, and Combined Majors in Economics their final academic session. Credit will only be granted for one of ECON 390, ECON 490, ECON 494, ECON 495, ECON 499. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252 and one of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309. For additional possible prerequisites see individual course descriptions on the School's website.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
ECON_V 490-005	ECON_V	490	005	Seminar in Applied Economics	W2	Selected problems and issues in the theory and practice of Economics. Each section will focus on a different field. Restricted to Economics Majors, and Combined Majors in Economics their final academic session. Credit will only be granted for one of ECON 390, ECON 490, ECON 494, ECON 495, ECON 499. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252 and one of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309. For additional possible prerequisites see individual course descriptions on the School's website.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.	
ECON_V 490-006	ECON_V	490	006	Seminar in Applied Economics	W2	Selected problems and issues in the theory and practice of Economics. Each section will focus on a different field. Restricted to Economics Majors, and Combined Majors in Economics their final academic session. Credit will only be granted for one of ECON 390, ECON 490, ECON 494, ECON 495, ECON 499. Prerequisite: One of ECON 326, ECON 328, STAT 306, LFS 252 and one of ECON 301, ECON 304, ECON 315, COMM 295 and one of ECON 302, ECON 305, ECON 309. For additional possible prerequisites see individual course descriptions on the School's website.	In Person Learning	Mon Wed Fri	3:30 p.m. - 4:30 p.m.	
ECON_V 492-F_001	ECON_V	492	F	F_001	Directed Reading	W1		In Person Learning	Fri	6:30 p.m. - 9:30 p.m.

ECON_V 493-001	ECON_V	493	001	Advanced Empirical Methods for International Economics	W1	Econometric methodologies necessary to conduct applied research, including time series analysis and panel data methods; review of empirical work in international economics. Registration restricted to students in the Bachelor of International Economics Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 328.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 494-001	ECON_V	494	001	Seminar in Applied International Economics	W2	Focus on a particular aspect of applied international economics. Independent empirical research project required. Credit will only be granted for one of ECON 390, 490, 494, 495, 499. Registration restricted to students in the Bachelor of International Economics Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 493.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 494-002	ECON_V	494	002	Seminar in Applied International Economics	W2	Focus on a particular aspect of applied international economics. Independent empirical research project required. Credit will only be granted for one of ECON 390, 490, 494, 495, 499. Registration restricted to students in the Bachelor of International Economics Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 493.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 494-003	ECON_V	494	003	Seminar in Applied International Economics	W2	Focus on a particular aspect of applied international economics. Independent empirical research project required. Credit will only be granted for one of ECON 390, 490, 494, 495, 499. Registration restricted to students in the Bachelor of International Economics Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 493.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 494-004	ECON_V	494	004	Seminar in Applied International Economics	W2	Focus on a particular aspect of applied international economics. Independent empirical research project required. Credit will only be granted for one of ECON 390, 490, 494, 495, 499. Registration restricted to students in the Bachelor of International Economics Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 493.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 495-001	ECON_V	495	001	Honours Seminar	W1	Reports and group discussions of selected topics for fourth-year Honours students. Credit will only be granted for one of ECON 390, 490, 494, 495, 499.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 499-001	ECON_V	499	001	Honours Essay	W2	Essay on some theoretical, applied, or institutional problem. Open only to fourth-year Honours students. Credit will only be granted for one of ECON 390, 490, 494, 495, 499.	In Person Learning	Wed	3:30 p.m. - 5:00 p.m.
ECON_V 500-001	ECON_V	500	001	Microeconomics	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 500-L1A	ECON_V	500	L1A	Microeconomics	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:30 a.m. - 10:00 a.m.
ECON_V 502-001	ECON_V	502	001	Macroeconomics	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ECON_V 502-L1A	ECON_V	502	L1A	Macroeconomics	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 11:30 a.m.
ECON_V 514-001	ECON_V	514	001	Computational Microeconomics	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 516-001	ECON_V	516	001	Special Topics in Macroeconomics	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 523-001	ECON_V	523	001	Behavioural Economics	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 526-001	ECON_V	526	001	Quantitative Economics with Data Science Applications	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 526-L1A	ECON_V	526	L1A	Quantitative Economics with Data Science Applications	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
ECON_V 527-001	ECON_V	527	001	Econometric Methods of Economic Research	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 527-L1A	ECON_V	527	L1A	Econometric Methods of Economic Research	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
ECON_V 531-001	ECON_V	531	001	Economic History I	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 541-001	ECON_V	541	001	Economic Development I	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ECON_V 542-001	ECON_V	542	001	Economic Development II	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 543-001	ECON_V	543	001	Political Economy I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.

ECON_V 544-001	ECON_V	544	001	Political Economy II	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 546-001	ECON_V	546	001	Monetary Theory and Policy I	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ECON_V 550-001	ECON_V	550	001	Public Economics I	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 551-001	ECON_V	551	001	Public Economics II	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ECON_V 553-001	ECON_V	553	001	Wealth and Income Inequality	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 555-001	ECON_V	555	001	International Trade	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ECON_V 556-001	ECON_V	556	001	International Finance	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 560-001	ECON_V	560	001	Economics of Labour I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 561-001	ECON_V	561	001	Economics of Labour II	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
ECON_V 562-001	ECON_V	562	001	Research Design and Policy Evaluation in Economics	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 567-001	ECON_V	567	001	Organization Theory and Non-market Allocation	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 573-001	ECON_V	573	001	Environmental Economics I	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ECON_V 574-001	ECON_V	574	001	Environmental Economics II	W2	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 590-A_001	ECON_V	590	A	A_001	W2	Special Advanced Course Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ECON_V 590-B_001	ECON_V	590	B	B_001	W1	Special Advanced Course Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527.	In Person Learning	Wed	12:30 p.m. - 4:00 p.m.
ECON_V 600-001	ECON_V	600	001	Microeconomics I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ECON_V 600-L1A	ECON_V	600	L1A	Microeconomics I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:30 p.m.
ECON_V 601-001	ECON_V	601	001	Microeconomics II	W2	Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 600.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
ECON_V 601-L1A	ECON_V	601	L1A	Microeconomics II	W2	Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 600.	In Person Learning	Fri	8:30 a.m. - 10:00 a.m.
ECON_V 602-001	ECON_V	602	001	Macroeconomics I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ECON_V 602-L1A	ECON_V	602	L1A	Macroeconomics I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:30 a.m. - 10:00 a.m.
ECON_V 603-001	ECON_V	603	001	Macroeconomics II	W2	Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 602.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ECON_V 603-L1A	ECON_V	603	L1A	Macroeconomics II	W2	Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 602.	In Person Learning	Fri	10:00 a.m. - 11:30 a.m.

ECON_V 622-001	ECON_V	622		001	Computational Economics with Data Science Applications	W1	Computational tools used in modern economic research; applications of data science and machine learning in economics; generating data from the web and text; software tools for reproducible research. Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 627. Prior graduate-level work in econometrics is required.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ECON_V 626-001	ECON_V	626		001	Econometric Theory I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ECON527]	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ECON_V 626-L1A	ECON_V	626		L1A	Econometric Theory I	W1	Restricted to M.A. ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ECON527]	In Person Learning	Fri	1:30 p.m. - 3:00 p.m.
ECON_V 627-001	ECON_V	627		001	Econometric Theory II	W2	Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ECON626]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ECON_V 627-L1A	ECON_V	627		L1A	Econometric Theory II	W2	Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: [ECON626]	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.
ECON_V 628-A_001	ECON_V	628	A	A_001	Topics in Applied Econometrics I	W1-2	Course restricted to ECON Ph.D. students only. External students may request permission to take this course from the ECON graduate program office. Prerequisite: All of ECON 500, ECON 502, ECON 526, ECON 527. Prior graduate level work in econometrics is required.	In Person Learning	Fri	1:00 p.m. - 2:30 p.m.
ECON_V 640-001	ECON_V	640		001	Ph.D. Research Seminar	W1-2	Course restricted to ECON PhD students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ECON_V 699-001	ECON_V	699		001	Doctoral Dissertation	W1-2	Course restricted to ECON PhD students only. Pass/Fail.	In Person Learning	Arranged	Arranged
ECON_V 699-002	ECON_V	699		002	Doctoral Dissertation	W1	Course restricted to ECON PhD students only. Pass/Fail.	In Person Learning	Arranged	Arranged
ECON_V 699-003	ECON_V	699		003	Doctoral Dissertation	W2	Course restricted to ECON PhD students only. Pass/Fail.	In Person Learning	Arranged	Arranged
ECPS_V 490-A_001	ECPS_V	490	A	A_001	Directed Study in Educational & Counselling Psychology, and Special Education	W1	Directed investigation of a problem or issue, requiring a written report or alternate mode of reporting or disseminating results of the investigation This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ECPS_V 490-B_002	ECPS_V	490	B	B_002	Directed Study in Educational & Counselling Psychology, and Special Education	W2	Directed investigation of a problem or issue, requiring a written report or alternate mode of reporting or disseminating results of the investigation This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ECPS_V 490-C_003	ECPS_V	490	C	C_003	Directed Study in Educational & Counselling Psychology, and Special Education	W1-2	Directed investigation of a problem or issue, requiring a written report or alternate mode of reporting or disseminating results of the investigation This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDCP_V 210-301	EDCP_V	210		301	Introduction to Music Education	W1	Role of music education in schools and society, including historical, philosophical, psychological, and sociological perspectives. Includes guided class observations and practice music teaching in elementary and secondary schools. Criminal Record Check required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 12:00 p.m.
EDCP_V 301-101	EDCP_V	301		101	Art - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:30 a.m.
EDCP_V 301-102	EDCP_V	301		102	Art - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
EDCP_V 301-103	EDCP_V	301		103	Art - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
EDCP_V 301-104	EDCP_V	301		104	Art - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 11:30 a.m.
EDCP_V 301-105	EDCP_V	301		105	Art - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
EDCP_V 301-107	EDCP_V	301		107	Art - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
EDCP_V 301-108	EDCP_V	301		108	Art - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.

EDCP_V 301-109	EDCP_V	301		109	Art - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:30 a.m. - 10:30 a.m.
EDCP_V 301-110	EDCP_V	301		110	Art - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:30 a.m. - 1:00 p.m.
EDCP_V 301-640	EDCP_V	301		640	Art - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 302-A 301	EDCP_V	302	A	A_301	Art - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A concentration in art or permission of the Head.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
EDCP_V 302-A 640	EDCP_V	302	A	A_640	Art - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A concentration in art or permission of the Head.	In Person Learning	Arranged	Arranged
EDCP_V 302-A 641	EDCP_V	302	A	A_641	Art - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A concentration in art or permission of the Head.	In Person Learning	Arranged	Arranged
EDCP_V 303-001	EDCP_V	303		001	Ceramic Design and Pedagogical Approaches: Art Education	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of introductory art studio or art history courses.	In Person Learning	Thu	4:30 p.m. - 8:30 p.m.
EDCP_V 303-002	EDCP_V	303		002	Ceramic Design and Pedagogical Approaches: Art Education	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of introductory art studio or art history courses.	In Person Learning	Thu	12:00 p.m. - 4:00 p.m.
EDCP_V 304-001	EDCP_V	304		001	Textile Design and Pedagogical Approaches: Art Education	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of introductory art studio or art history courses.	In Person Learning	Wed	12:00 p.m. - 4:00 p.m.
EDCP_V 304-002	EDCP_V	304		002	Textile Design and Pedagogical Approaches: Art Education	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of introductory art studio or art history courses.	In Person Learning	Wed	4:30 p.m. - 8:30 p.m.
EDCP_V 305-301	EDCP_V	305		301	Digital Media in Arts Education: Introduction	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDCP_V 306-301	EDCP_V	306		301	Digital Media in Arts Education: Advanced	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDCP_V 308-101	EDCP_V	308		101	Music - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
EDCP_V 308-102	EDCP_V	308		102	Music - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:30 a.m.
EDCP_V 308-103	EDCP_V	308		103	Music - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	2:00 p.m. - 4:30 p.m.
EDCP_V 308-104	EDCP_V	308		104	Music - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
EDCP_V 308-105	EDCP_V	308		105	Music - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 7:00 p.m.
EDCP_V 308-107	EDCP_V	308		107	Music - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:30 p.m.
EDCP_V 308-108	EDCP_V	308		108	Music - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:30 a.m. - 1:00 p.m.
EDCP_V 308-109	EDCP_V	308		109	Music - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
EDCP_V 308-110	EDCP_V	308		110	Music - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 11:30 a.m.
EDCP_V 308-640	EDCP_V	308		640	Music - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 311-A 301	EDCP_V	311	A	A_301	Music - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. A minimum grade of 76% in EDCP 312 and EDCP 313 or equivalent courses completed at another university, plus admission to B.Ed. program in Music Education: Secondary.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.

EDCP_V 312-A_301	EDCP_V	312	A	A_301	Instrumental Pedagogy: Secondary	W1	Prerequisite: One of MUSC 311, MUSC 312, MUSC 313. or equivalent course(s) completed at another university. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Thu	8:00 a.m. - 10:00 a.m.
EDCP_V 313-A_301	EDCP_V	313	A	A_301	Choral Pedagogy: Secondary	W1	Recommended: Students are encouraged to complete as many of MUSC 311, MUSC 312, MUSC 313 as possible prior to registering. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MUSC 311, MUSC 312, MUSC 313. or equivalent course(s) completed at another university.	In Person Learning	Wed Fri	8:00 a.m. - 10:00 a.m.
EDCP_V 320-101	EDCP_V	320		101	Physical Education - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Fri	10:00 a.m. - 12:30 p.m.
EDCP_V 320-102	EDCP_V	320		102	Physical Education - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.
EDCP_V 320-103	EDCP_V	320		103	Physical Education - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
EDCP_V 320-104	EDCP_V	320		104	Physical Education - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
EDCP_V 320-105	EDCP_V	320		105	Physical Education - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Mon	6:00 p.m. - 8:00 p.m.
EDCP_V 320-107	EDCP_V	320		107	Physical Education - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Tue	8:00 a.m. - 10:30 a.m.
EDCP_V 320-108	EDCP_V	320		108	Physical Education - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
EDCP_V 320-109	EDCP_V	320		109	Physical Education - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
EDCP_V 320-110	EDCP_V	320		110	Physical Education - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Fri	11:00 a.m. - 3:00 p.m.
EDCP_V 320-640	EDCP_V	320		640	Physical Education - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Arranged	Arranged
EDCP_V 322-A_301	EDCP_V	322	A	A_301	Physical Education - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in physical education or permission of the head.	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
EDCP_V 322-A_640	EDCP_V	322	A	A_640	Physical Education - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in physical education or permission of the head.	In Person Learning	Arranged	Arranged
EDCP_V 323-301	EDCP_V	323		301	Outdoor Environmental Education: Curriculum and Pedagogy	W1	Costs for field trips and an overnight experience are borne by students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
EDCP_V 326-301	EDCP_V	326		301	Health Education: Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:30 a.m. - 12:00 p.m.
EDCP_V 331-101	EDCP_V	331		101	Social Studies - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 10:30 a.m.
EDCP_V 331-102	EDCP_V	331		102	Social Studies - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:30 a.m. - 12:30 p.m.
EDCP_V 331-103	EDCP_V	331		103	Social Studies - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
EDCP_V 331-104	EDCP_V	331		104	Social Studies - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.
EDCP_V 331-105	EDCP_V	331		105	Social Studies - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 4:00 p.m.
EDCP_V 331-107	EDCP_V	331		107	Social Studies - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 12:30 p.m.
EDCP_V 331-108	EDCP_V	331		108	Social Studies - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:30 a.m. - 10:30 a.m.

EDCP_V 331-109	EDCP_V	331		109	Social Studies - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 3:30 p.m.
EDCP_V 331-110	EDCP_V	331		110	Social Studies - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.
EDCP_V 331-640	EDCP_V	331		640	Social Studies - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 331-641	EDCP_V	331		641	Social Studies - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 331-650	EDCP_V	331		650	Social Studies - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 332-A_301	EDCP_V	332	A	A_301	Social Studies - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
EDCP_V 332-A_302	EDCP_V	332	A	A_302	Social Studies - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
EDCP_V 332-A_303	EDCP_V	332	A	A_303	Social Studies - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
EDCP_V 332-A_640	EDCP_V	332	A	A_640	Social Studies - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 333-301	EDCP_V	333		301	Contemporary Issues in Social Studies: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EDCP_V 333-302	EDCP_V	333		302	Contemporary Issues in Social Studies: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.
EDCP_V 340-101	EDCP_V	340		101	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 6:30 p.m.
EDCP_V 340-102	EDCP_V	340		102	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:30 p.m.
EDCP_V 340-103	EDCP_V	340		103	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:00 p.m.
EDCP_V 340-104	EDCP_V	340		104	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:30 a.m. - 10:30 a.m.
EDCP_V 340-105	EDCP_V	340		105	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.
EDCP_V 340-107	EDCP_V	340		107	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:30 p.m.
EDCP_V 340-108	EDCP_V	340		108	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 7:00 p.m.
EDCP_V 340-109	EDCP_V	340		109	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
EDCP_V 340-110	EDCP_V	340		110	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.
EDCP_V 340-640	EDCP_V	340		640	Mathematics - Elementary and Middle Years: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 342-A_301	EDCP_V	342	A	A_301	Mathematics - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in mathematics or permission of the Head.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
EDCP_V 342-A_640	EDCP_V	342	A	A_640	Mathematics - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in mathematics or permission of the Head.	In Person Learning	Arranged	Arranged

EDCP_V 349-101	EDCP_V	349	101	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.	
EDCP_V 349-102	EDCP_V	349	102	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.	
EDCP_V 349-103	EDCP_V	349	103	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:30 p.m.	
EDCP_V 349-104	EDCP_V	349	104	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 1:00 p.m.	
EDCP_V 349-105	EDCP_V	349	105	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 5:00 p.m.	
EDCP_V 349-107	EDCP_V	349	107	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.	
EDCP_V 349-108	EDCP_V	349	108	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:30 p.m.	
EDCP_V 349-109	EDCP_V	349	109	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 3:30 p.m.	
EDCP_V 349-110	EDCP_V	349	110	Science - Elementary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 10:30 a.m.	
EDCP_V 349-640	EDCP_V	349	640	Science - Elementary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDCP_V 352-A_301	EDCP_V	352	A	A_301	General Science - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in agricultural sciences, biological sciences, chemistry, earth and space science, or physics, or permission of the Head.	In Person Learning	Fri	8:00 a.m. - 9:30 a.m.
EDCP_V 352-A_302	EDCP_V	352	A	A_302	General Science - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in agricultural sciences, biological sciences, chemistry, earth and space science, or physics, or permission of the Head.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
EDCP_V 352-A_303	EDCP_V	352	A	A_303	General Science - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in agricultural sciences, biological sciences, chemistry, earth and space science, or physics, or permission of the Head.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
EDCP_V 352-A_640	EDCP_V	352	A	A_640	General Science - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in agricultural sciences, biological sciences, chemistry, earth and space science, or physics, or permission of the Head.	In Person Learning	Arranged	Arranged
EDCP_V 354-A_301	EDCP_V	354	A	A_301	Biological Sciences - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in biological sciences or permission of the Head.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
EDCP_V 354-A_302	EDCP_V	354	A	A_302	Biological Sciences - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in biological sciences or permission of the Head.	In Person Learning	Fri	11:00 a.m. - 12:30 p.m.
EDCP_V 354-A_640	EDCP_V	354	A	A_640	Biological Sciences - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in biological sciences or permission of the Head.	In Person Learning	Arranged	Arranged
EDCP_V 355-A_301	EDCP_V	355	A	A_301	Chemistry - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in chemistry or permission of the Head.	In Person Learning	Thu	8:00 a.m. - 9:30 a.m.
EDCP_V 355-A_640	EDCP_V	355	A	A_640	Chemistry - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in chemistry or permission of the Head.	In Person Learning	Arranged	Arranged
EDCP_V 356-A_301	EDCP_V	356	A	A_301	Earth and Space Science - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in earth and space science or permission of the Head.	In Person Learning	Arranged	Arranged
EDCP_V 356-A_640	EDCP_V	356	A	A_640	Earth and Space Science - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in earth and space science or permission of the Head.	In Person Learning	Arranged	Arranged
EDCP_V 357-A_301	EDCP_V	357	A	A_301	Physics - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in physics or permission of the Head.	In Person Learning	Mon	2:30 p.m. - 4:00 p.m.
EDCP_V 357-A_640	EDCP_V	357	A	A_640	Physics - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: A completed concentration in physics or permission of the Head.	In Person Learning	Arranged	Arranged

EDCP_V 362-B_301	EDCP_V	362	B	B_301	Curriculum Design and Evaluation: Practical and Theoretical Issues	W1		In Person Learning	Mon	4:30 p.m. - 8:00 p.m.
EDCP_V 362-D_377	EDCP_V	362	D	D_377	Curriculum Design and Evaluation: Practical and Theoretical Issues	W2		In Person Learning	Mon	4:00 p.m. - 7:00 p.m.
EDCP_V 362-D_624	EDCP_V	362	D	D_624	Curriculum Design and Evaluation: Practical and Theoretical Issues	W2		In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
EDCP_V 362-D_625	EDCP_V	362	D	D_625	Curriculum Design and Evaluation: Practical and Theoretical Issues	W2		In Person Learning	Arranged	Arranged
EDCP_V 371-301	EDCP_V	371		301	Integrating Design and Technology Across the Curriculum: Elementary and Middle Years	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDCP_V 373-A_301	EDCP_V	373	A	A_301	Information and Communication Technologies I - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 374-A_301	EDCP_V	374	A	A_301	Design and Technology I - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 375-A_301	EDCP_V	375	A	A_301	Business Education I - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 375-A_640	EDCP_V	375	A	A_640	Business Education I - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 378-301	EDCP_V	378		301	Business Education II - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
EDCP_V 391-A_301	EDCP_V	391	A	A_301	Home Economics I - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 391-A_640	EDCP_V	391	A	A_640	Home Economics I - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 391-A_641	EDCP_V	391	A	A_641	Home Economics I - Secondary: Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 403-001	EDCP_V	403		001	Visual Arts for Classroom Practice: Three-Dimensional Practices and Processes	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:30 p.m.
EDCP_V 404-001	EDCP_V	404		001	Visual Arts for Classroom Practice: Textile Design	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:30 p.m.
EDCP_V 408-301	EDCP_V	408		301	Art, Education and Cultural Diversity	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EDCP_V 409-301	EDCP_V	409		301	Art Education Theory and Research	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: Art education as a major or minor and completion of a practicum in Art Education.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
EDCP_V 410-301	EDCP_V	410		301	Music and Movement - Elementary: Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: An introductory course in music education or permission of the Head.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDCP_V 412-301	EDCP_V	412		301	Conducting and Rehearsal Techniques for Teachers	W2	Prerequisite: EDCP 311A or prior experience in teaching music ensemble classes for secondary school students.	In Person Learning	Mon Tue Thu	10:00 a.m. - 12:00 p.m.
EDCP_V 432-301	EDCP_V	432		301	Special Study in Social Studies: Geography	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDCP_V 432-302	EDCP_V	432		302	Special Study in Social Studies: Geography	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 441-B_301	EDCP_V	441	B	B_301	Assessment in Mathematics Education	W1	Recommended pre-requisites: one of EDCP 340, EDCP 342.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 442-301	EDCP_V	442		301	Mathematics History for Teachers	W1	[3-0]	In Person Learning	Mon Wed	2:30 p.m. - 4:00 p.m.

EDCP_V 467-A_001	EDCP_V	467	A	A_001	Special Topics in Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 467-B_002	EDCP_V	467	B	B_002	Special Topics in Curriculum and Pedagogy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 467-J_301	EDCP_V	467	J	J_301	Special Topics in Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
EDCP_V 467-J_302	EDCP_V	467	J	J_302	Special Topics in Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
EDCP_V 468-A_001	EDCP_V	468	A	A_001	Directed Study in Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 468-A_002	EDCP_V	468	A	A_002	Directed Study in Curriculum and Pedagogy	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 468-C_001	EDCP_V	468	C	C_001	Directed Study in Curriculum and Pedagogy	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 468-E_001	EDCP_V	468	E	E_001	Directed Study in Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 471-A_301	EDCP_V	471	A	A_301	Technological Practices in Education: Technical Problems	W1		In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
EDCP_V 472-301	EDCP_V	472		301	Business Practices in Education	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDCP_V 474-301	EDCP_V	474		301	Digital Media in Education: Design and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDCP_V 491-301	EDCP_V	491		301	Home Economics II - Secondary: Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: EDCP 391.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
EDCP_V 491-63C	EDCP_V	491		63C	Home Economics II - Secondary: Curriculum and Pedagogy	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: EDCP 391.	Online Learning	Arranged	Arranged
EDCP_V 492-63A	EDCP_V	492		63A	Special Study in Home Economics: Textile Studies	W1		Online Learning	Arranged	Arranged
EDCP_V 498-63C	EDCP_V	498		63C	Curriculum Inquiry in Home Economics Education	W2	Culminating inquiry in curriculum and pedagogy for the Home Economics Education Diploma. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 498-63D	EDCP_V	498		63D	Curriculum Inquiry in Home Economics Education	W2	Culminating inquiry in curriculum and pedagogy for the Home Economics Education Diploma. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 501-61A	EDCP_V	501		61A	Master's Seminar	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 508-B_031	EDCP_V	508	B	B_031	Review of Research in Curriculum and Pedagogy	W1	Studies of recent research bearing on education practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 508-B_61A	EDCP_V	508	B	B_61A	Review of Research in Curriculum and Pedagogy	W1-2	Studies of recent research bearing on education practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
EDCP_V 508-B_61B	EDCP_V	508	B	B_61B	Review of Research in Curriculum and Pedagogy	W1-2	Studies of recent research bearing on education practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
EDCP_V 510-031	EDCP_V	510		031	Video Ethnography in Education Research: Culture, Technology, and Interpretation	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: A qualitative research methods course.	In Person Learning	Arranged	Arranged
EDCP_V 512-A_032	EDCP_V	512	A	A_032	Education Action Research	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 513-031	EDCP_V	513		031	Case-Study Research and Cross-Case Analysis	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: A qualitative research methods course.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.

EDCP_V 514-032	EDCP_V	514	032	Arts-Based Educational Research: A/r/tography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDCP_V 520-031	EDCP_V	520	031	Perspectives, Practice, and Curriculum Issues in Contemporary Art Education	W1	Emphasis is placed upon the foundations and conflicting conceptions of curriculum in art education. Theory/practice issues in the development, implementation, and evaluation of art programs are explored. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 521-032	EDCP_V	521	032	Historical and Social Foundations of Art Education	W2	Histories of art education are examined. Social and cultural implications for art education (past and present) are explored. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 526-B 032	EDCP_V	526	B 032	Theory and Principles of Music Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDCP_V 535-032	EDCP_V	535	032	Research in School Health Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 537-61A	EDCP_V	537	61A	Foundations of Home Economics Education	W1	A review and critical analysis of the history and philosophy of school home economics programs. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 541-61A	EDCP_V	541	61A	Problems in Historical Understanding	W1	Recent controversies in North American historical literature and implications for school curriculum in the light of research on teaching and learning history. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 542-032	EDCP_V	542	032	Theorizing Pedagogy	W2	Pedagogy as construed by teacher-researchers, curriculum thinkers, indigenous scholars, educational philosophers, and cultural theorists. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDCP_V 542-62A	EDCP_V	542	62A	Theorizing Pedagogy	W2	Pedagogy as construed by teacher-researchers, curriculum thinkers, indigenous scholars, educational philosophers, and cultural theorists. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 544-032	EDCP_V	544	032	Mathematics and Science Teaching and Learning with Technologies	W2	Theoretical underpinnings and pedagogical, social and economic implications of 21st century technology-enhanced mathematics and science education. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDCP_V 544-62A	EDCP_V	544	62A	Mathematics and Science Teaching and Learning with Technologies	W2	Theoretical underpinnings and pedagogical, social and economic implications of 21st century technology-enhanced mathematics and science education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 546-031	EDCP_V	546	031	Indigenous Visual Expression as Pedagogy	W1	Pedagogical implications of Indigenous art making and visual expression both for Indigenous peoples and for non-Indigenous viewers and consumers through the lenses of misrepresentation, self-representation, and auto-pedagogical potential and practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDCP_V 550-031	EDCP_V	550	031	Mathematics Education: Origins and Issues	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDCP_V 550-62A	EDCP_V	550	62A	Mathematics Education: Origins and Issues	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 551-61A	EDCP_V	551	61A	Mathematics Education: Current Issues	W1	An advanced course in curriculum and pedagogy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 553-032	EDCP_V	553	032	Mathematics Education: Beyond the Early Years	W2	Recent theories and research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 553-62A	EDCP_V	553	62A	Mathematics Education: Beyond the Early Years	W2	Recent theories and research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 555-032	EDCP_V	555	032	Critical Analysis of Curriculum in Science Education	W2	Current ideas about science curriculum, the nature of science, and its implications for scientific literacy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDCP_V 556-032	EDCP_V	556	032	Theory and Research in the Social Context of School Science	W2	Historical and current social, political and economic influences on science curriculum and science teaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDCP_V 558-61A	EDCP_V	558	61A	Science Learning in Informal Environments	W1	Theoretical perspectives and current research on science learning in contexts other than formal science classes. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 559-031	EDCP_V	559	031	Research in the Teaching and Learning of the Sciences	W1	Current models and methods of inquiry in science education. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDCP_V 559-61A	EDCP_V	559	61A	Research in the Teaching and Learning of the Sciences	W1	Current models and methods of inquiry in science education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDCP_V 562-031	EDCP_V	562	031	Curriculum Issues and Theories	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.

EDCP_V 562-032	EDCP_V	562	032	Curriculum Issues and Theories	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
EDCP_V 562-61A	EDCP_V	562	61A	Curriculum Issues and Theories	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDCP_V 562-61B	EDCP_V	562	61B	Curriculum Issues and Theories	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDCP_V 562-62A	EDCP_V	562	62A	Curriculum Issues and Theories	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDCP_V 562-62B	EDCP_V	562	62B	Curriculum Issues and Theories	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDCP_V 564-62A	EDCP_V	564	62A	Texts, Politics, and Ideologies of Curriculum Development	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDCP_V 565-62A	EDCP_V	565	62A	Teaching in Museums	W2	Issues, theories, and research studies. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDCP_V 566-032	EDCP_V	566	032	Curriculum Change, Planning, and Implementation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
EDCP_V 566-61A	EDCP_V	566	61A	Curriculum Change, Planning, and Implementation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDCP_V 568-031	EDCP_V	568	031	Curricula in their Historical Context	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDCP_V 571-032	EDCP_V	571	032	History of Media and Technology in Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue	4:30 p.m. - 7:30 p.m.	
EDCP_V 580-C 032	EDCP_V	580	C	C_032	Problems in Education	W2	Directed Studies and Major Essay in the diverse disciplines and topics of curriculum and pedagogy. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDCP_V 580-D 031	EDCP_V	580	D	D_031	Problems in Education	W1	Directed Studies and Major Essay in the diverse disciplines and topics of curriculum and pedagogy. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDCP_V 585-A 031	EDCP_V	585	A	A_031	Special Course in Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDCP_V 585-B 61A	EDCP_V	585	B	B_61A	Special Course in Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 585-E 031	EDCP_V	585	E	E_031	Special Course in Curriculum and Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDCP_V 585-H 61A	EDCP_V	585	H	H_61A	Special Course in Curriculum and Pedagogy	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDCP_V 590-031	EDCP_V	590	031	Graduating Paper	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDCP_V 590-032	EDCP_V	590	032	Graduating Paper	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDCP_V 590-033	EDCP_V	590	033	Graduating Paper	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDCP_V 590-61A	EDCP_V	590	61A	Graduating Paper	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDCP_V 590-61B	EDCP_V	590	61B	Graduating Paper	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDCP_V 590-62A	EDCP_V	590	62A	Graduating Paper	W1-2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	

EDCP_V 598-A 61A	EDCP_V	598	A	A_61A	Field Experiences	W1-2	Field experiences in community-based or museum contexts. Focus on curriculum design and evaluation. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDCP_V 599-C 031	EDCP_V	599	C	C_031	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDCP_V 599-C 032	EDCP_V	599	C	C_032	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDCP_V 599-C 033	EDCP_V	599	C	C_033	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDCP_V 601-A 031	EDCP_V	601	A	A_031	Doctoral Seminar in Curriculum and Pedagogy: History and Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
EDCP_V 602-A 032	EDCP_V	602	A	A_032	Doctoral Seminar in Curriculum and Pedagogy: Conceptualizing Research	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
EDCP_V 699-031	EDCP_V	699		031	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged
EDCP_V 699-032	EDCP_V	699		032	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged
EDCP_V 699-033	EDCP_V	699		033	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
EDST_V 401-001	EDST_V	401		001	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
EDST_V 401-002	EDST_V	401		002	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
EDST_V 401-003	EDST_V	401		003	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
EDST_V 401-004	EDST_V	401		004	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
EDST_V 401-005	EDST_V	401		005	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
EDST_V 401-006	EDST_V	401		006	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
EDST_V 401-007	EDST_V	401		007	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
EDST_V 401-008	EDST_V	401		008	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
EDST_V 401-009	EDST_V	401		009	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:30 p.m. - 4:00 p.m.
EDST_V 401-010	EDST_V	401		010	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:30 p.m. - 4:00 p.m.
EDST_V 401-101	EDST_V	401		101	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:30 a.m. - 11:30 a.m.
EDST_V 401-102	EDST_V	401		102	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
EDST_V 401-103	EDST_V	401		103	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:30 p.m. - 4:00 p.m.
EDST_V 401-104	EDST_V	401		104	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:30 p.m.

EDST_V 401-105	EDST_V	401	105	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
EDST_V 401-107	EDST_V	401	107	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:30 a.m. - 11:30 a.m.	
EDST_V 401-108	EDST_V	401	108	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
EDST_V 401-109	EDST_V	401	109	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:30 p.m.	
EDST_V 401-110	EDST_V	401	110	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
EDST_V 401-640	EDST_V	401	640	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDST_V 401-641	EDST_V	401	641	Education, School, and Social Institutions	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDST_V 403-001	EDST_V	403	001	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 1:00 p.m.	
EDST_V 403-002	EDST_V	403	002	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.	
EDST_V 403-01B	EDST_V	403	01B	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 1:00 p.m.	
EDST_V 403-01C	EDST_V	403	01C	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 1:00 p.m.	
EDST_V 403-02B	EDST_V	403	02B	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.	
EDST_V 403-02C	EDST_V	403	02C	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.	
EDST_V 403-103	EDST_V	403	103	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
EDST_V 403-105	EDST_V	403	105	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.	
EDST_V 403-109	EDST_V	403	109	Education, Knowledge, and Curriculum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
EDST_V 493-022	EDST_V	493	022	Introduction to the Study of Higher Education	W2	An overview of the field of study of higher education in Canada and other countries emphasizing current issues such as accessibility, enrolment, diversity of offerings, and internationalization. [3-0-0]	Online Learning	Arranged	Arranged	
EDST_V 493-63A	EDST_V	493	63A	Introduction to the Study of Higher Education	W1	An overview of the field of study of higher education in Canada and other countries emphasizing current issues such as accessibility, enrolment, diversity of offerings, and internationalization. [3-0-0]	Online Learning	Arranged	Arranged	
EDST_V 501-021	EDST_V	501	021	Research Traditions in Educational Administration	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat	9:00 a.m. - 4:00 p.m.	
EDST_V 501-61A	EDST_V	501	61A	Research Traditions in Educational Administration	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDST_V 503-021	EDST_V	503	021	Foundations of Adult Learning and Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
EDST_V 504-A_021	EDST_V	504	A	A_021	History of Educational Policy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDST_V 507-D_022	EDST_V	507	D	D_022	Topics in the History of Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.

EDST_V 509-081	EDST_V	509	081	Constructing Citizens: Canada and the Educational Past	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
EDST_V 511-021	EDST_V	511	021	Organization and Administration of Higher Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	4:30 p.m. - 7:30 p.m.	
EDST_V 512-022	EDST_V	512	022	Transitions and Access Across the Life Course	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDST_V 513-022	EDST_V	513	022	Current issues in Higher Education	W1	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	4:30 p.m. - 7:30 p.m.	
EDST_V 515-022	EDST_V	515	022	Survey Research Methods	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	4:30 p.m. - 7:30 p.m.	
EDST_V 518-022	EDST_V	518	022	Theory and Research on Adult Learning	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.	
EDST_V 521-021	EDST_V	521	021	Foundations of Higher Education	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	4:30 p.m. - 7:30 p.m.	
EDST_V 523-A_021	EDST_V	523	A	A_021	Comparative Education	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue	4:30 p.m. - 7:30 p.m.
EDST_V 523-B_61A	EDST_V	523	B	B_61A	Comparative Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 525-021	EDST_V	525	021	Program Evaluation in Adult and Community Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDST_V 527-022	EDST_V	527	022	Higher Education Policy: International and Comparative Perspectives	W2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Thu	4:30 p.m. - 7:30 p.m.	
EDST_V 531-022	EDST_V	531	022	The Politics of Educational Governance	W2	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.	
EDST_V 533-61A	EDST_V	533	61A	Planning in Educational Organizations	W2	This course is not eligible for Credit/D/Fail grading. [3-0]	Online Learning	Arranged	Arranged	
EDST_V 534-021	EDST_V	534	021	Theory and Practice of Transformative Learning and Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.	
EDST_V 535-022	EDST_V	535	022	Comparative and International Adult Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
EDST_V 540-A_021	EDST_V	540	A	A_021	Locating Oneself in Global Learning	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDST_V 540-B_022	EDST_V	540	B	B_022	Locating Oneself in Global Learning	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDST_V 541-021	EDST_V	541	021	Adult Learning: Contexts and Perspectives	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDST_V 543-022	EDST_V	543	022	Understanding Research	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDST_V 544-021	EDST_V	544	021	Global/Local Learning	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDST_V 545-021	EDST_V	545	021	Indigenous Inquiry and Research	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.	
EDST_V 545-61A	EDST_V	545	61A	Indigenous Inquiry and Research	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri (Alternate weeks)	4:30 p.m. - 7:30 p.m.	
EDST_V 545-61B	EDST_V	545	61B	Indigenous Inquiry and Research	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	

EDST_V 546-022	EDST_V	546		022	Indigenous Methodology and Epistemology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDST_V 553-A. 022	EDST_V	553	A	A_022	Group Inquiry into Educational Practices	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat	9:00 a.m. - 4:00 p.m.
EDST_V 553-A. 61A	EDST_V	553	A	A_61A	Group Inquiry into Educational Practices	W1-2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Arranged	Arranged
EDST_V 553-A. 62A	EDST_V	553	A	A_62A	Group Inquiry into Educational Practices	W1-2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Arranged	Arranged
EDST_V 555-021	EDST_V	555		021	Educational Finance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDST_V 558-021	EDST_V	558		021	Antiracism Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDST_V 561-A. 081	EDST_V	561	A	A_081	Practicum	W1	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Arranged	Arranged
EDST_V 565-A. 021	EDST_V	565	A	A_021	Special Course in Subject Matter Field	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDST_V 571-021	EDST_V	571		021	Educational Research: Relating Questions, Theory, and Methodology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDST_V 575-021	EDST_V	575		021	Work and Learning	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDST_V 575-022	EDST_V	575		022	Work and Learning	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDST_V 575-082	EDST_V	575		082	Work and Learning	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDST_V 577-081	EDST_V	577		081	Social Contexts of Educational Policy, Politics and Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDST_V 579-022	EDST_V	579		022	School-Community Relations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EDST_V 580-A. 081	EDST_V	580	A	A_081	Directed Study	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDST_V 580-B. 082	EDST_V	580	B	B_082	Directed Study	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDST_V 580-C. 083	EDST_V	580	C	C_083	Directed Study	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDST_V 581-022	EDST_V	581		022	Leadership, Administration, and the Aims of Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDST_V 581-61A	EDST_V	581		61A	Leadership, Administration, and the Aims of Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 582-022	EDST_V	582		022	The Study of Educational Organizations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDST_V 582-62A	EDST_V	582		62A	The Study of Educational Organizations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 585-022	EDST_V	585		022	Capstone: Society, Culture, and Politics in Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	4:30 p.m. - 7:30 p.m.
EDST_V 588-022	EDST_V	588		022	Environmental Philosophy and Education	W2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue	4:30 p.m. - 7:30 p.m.

EDST_V 590-081	EDST_V	590	081	Graduating Paper	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 590-082	EDST_V	590	082	Graduating Paper	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 590-083	EDST_V	590	083	Graduating Paper	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 590-61A	EDST_V	590	61A	Graduating Paper	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EDST_V 591-021	EDST_V	591	021	Indigenous Epistemology and Curriculum	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EDST_V 597-021	EDST_V	597	021	Educational Theories: Equality, Democracy, and Justice	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EDST_V 598-A_021	EDST_V	598	A_021	Field Experiences	W1	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	4:30 p.m. - 7:30 p.m.
EDST_V 598-A_022	EDST_V	598	A_022	Field Experiences	W2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	4:30 p.m. - 7:30 p.m.
EDST_V 599-C_081	EDST_V	599	C_081	Master's Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 599-C_082	EDST_V	599	C_082	Master's Thesis	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 599-C_083	EDST_V	599	C_083	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 599-E_084	EDST_V	599	E_084	Master's Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 599-E_085	EDST_V	599	E_085	Master's Thesis	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 599-E_086	EDST_V	599	E_086	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDST_V 601-A_081	EDST_V	601	A_081	Doctoral Seminar	W1	Required of students in the first year of a doctoral program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
EDST_V 601-B_081	EDST_V	601	B_081	Doctoral Seminar	W2	Required of students in the first year of a doctoral program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
EDST_V 602-A_083	EDST_V	602	A_083	Doctoral Seminar	W1	For students in the first or second year of a doctoral program as determined in consultation with the student's supervisor. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
EDST_V 602-B_083	EDST_V	602	B_083	Doctoral Seminar	W2	For students in the first or second year of a doctoral program as determined in consultation with the student's supervisor. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat	9:00 a.m. - 4:00 p.m.
EDST_V 699-081	EDST_V	699	081	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
EDST_V 699-082	EDST_V	699	082	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged
EDST_V 699-083	EDST_V	699	083	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged
EDUC_V 140-177	EDUC_V	140	177	Introduction to Indigenous Studies	W1		In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EDUC_V 140-622	EDUC_V	140	622	Introduction to Indigenous Studies	W1		In Person Learning	Arranged	Arranged

EDUC_V 140-623	EDUC_V	140	623	Introduction to Indigenous Studies	W1		In Person Learning	Arranged	Arranged
EDUC_V 140-624	EDUC_V	140	624	Introduction to Indigenous Studies	W1		In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
EDUC_V 140-625	EDUC_V	140	625	Introduction to Indigenous Studies	W1		In Person Learning	Arranged	Arranged
EDUC_V 140-626	EDUC_V	140	626	Introduction to Indigenous Studies	W1		In Person Learning	Arranged	Arranged
EDUC_V 140-627	EDUC_V	140	627	Introduction to Indigenous Studies	W1		In Person Learning	Arranged	Arranged
EDUC_V 140-628	EDUC_V	140	628	Introduction to Indigenous Studies	W1-2		In Person Learning	Arranged	Arranged
EDUC_V 140-629	EDUC_V	140	629	Introduction to Indigenous Studies	W1-2		In Person Learning	Arranged	Arranged
EDUC_V 141-177	EDUC_V	141	177	Indigenous Studies	W2	For students in the Indigenous Teacher Education Program (NITEP) only.	In Person Learning	Thu	8:30 a.m. - 12:00 p.m.
EDUC_V 141-624	EDUC_V	141	624	Indigenous Studies	W1	For students in the Indigenous Teacher Education Program (NITEP) only.	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
EDUC_V 141-625	EDUC_V	141	625	Indigenous Studies	W1	For students in the Indigenous Teacher Education Program (NITEP) only.	In Person Learning	Arranged	Arranged
EDUC_V 143-177	EDUC_V	143	177	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:30 a.m. - 12:00 p.m.
EDUC_V 143-622	EDUC_V	143	622	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 143-623	EDUC_V	143	623	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 143-624	EDUC_V	143	624	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 5:30 p.m.
EDUC_V 143-625	EDUC_V	143	625	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 143-626	EDUC_V	143	626	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 143-627	EDUC_V	143	627	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 143-628	EDUC_V	143	628	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 143-629	EDUC_V	143	629	Indigenous Education Seminar and Classroom Observation I	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 210-001	EDUC_V	210	001	Global Citizenship, Part 1: Introduction	W1	Equivalency: ASTU210	In Person Learning	Wed	12:30 p.m. - 4:00 p.m.
EDUC_V 210-002	EDUC_V	210	002	Global Citizenship, Part 1: Introduction	W1	Equivalency: ASTU210	In Person Learning	Wed	12:30 p.m. - 4:00 p.m.
EDUC_V 210-003	EDUC_V	210	003	Global Citizenship, Part 1: Introduction	W1	Equivalency: ASTU210	In Person Learning	Wed	12:30 p.m. - 4:00 p.m.
EDUC_V 210-004	EDUC_V	210	004	Global Citizenship, Part 1: Introduction	W1	Equivalency: ASTU210	In Person Learning	Wed	12:30 p.m. - 4:00 p.m.

EDUC_V 210-L02	EDUC_V	210	L02	Global Citizenship, Part 1: Introduction	W1	Equivalency: ASTU210	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.	
EDUC_V 240-177	EDUC_V	240	177	Issues in Indigenous Education	W2	[3-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
EDUC_V 240-622	EDUC_V	240	622	Issues in Indigenous Education	W2	[3-0]	In Person Learning	Arranged	Arranged	
EDUC_V 240-623	EDUC_V	240	623	Issues in Indigenous Education	W1	[3-0]	In Person Learning	Arranged	Arranged	
EDUC_V 240-624	EDUC_V	240	624	Issues in Indigenous Education	W2	[3-0]	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.	
EDUC_V 240-625	EDUC_V	240	625	Issues in Indigenous Education	W1	[3-0]	In Person Learning	Arranged	Arranged	
EDUC_V 240-626	EDUC_V	240	626	Issues in Indigenous Education	W2	[3-0]	In Person Learning	Arranged	Arranged	
EDUC_V 240-627	EDUC_V	240	627	Issues in Indigenous Education	W1-2	[3-0]	In Person Learning	Arranged	Arranged	
EDUC_V 240-628	EDUC_V	240	628	Issues in Indigenous Education	W1-2	[3-0]	In Person Learning	Arranged	Arranged	
EDUC_V 240-629	EDUC_V	240	629	Issues in Indigenous Education	W1	[3-0]	In Person Learning	Arranged	Arranged	
EDUC_V 244-277	EDUC_V	244	277	Indigenous Education Seminar and Classroom Observation II	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 1:30 p.m.	
EDUC_V 244-625	EDUC_V	244	625	Indigenous Education Seminar and Classroom Observation II	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EDUC_V 315-A_001	EDUC_V	315	A	A_001	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
EDUC_V 315-A_101	EDUC_V	315	A	A_101	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_102	EDUC_V	315	A	A_102	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_103	EDUC_V	315	A	A_103	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_104	EDUC_V	315	A	A_104	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_105	EDUC_V	315	A	A_105	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_107	EDUC_V	315	A	A_107	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_108	EDUC_V	315	A	A_108	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_109	EDUC_V	315	A	A_109	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_110	EDUC_V	315	A	A_110	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_112	EDUC_V	315	A	A_112	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.

EDUC_V 315-A_117	EDUC_V	315	A	A_117	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EDUC_V 315-A_215	EDUC_V	315	A	A_215	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 315-A_225	EDUC_V	315	A	A_225	School-based Orientation Practicum	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 315-A_301	EDUC_V	315	A	A_301	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
EDUC_V 315-A_640	EDUC_V	315	A	A_640	School-based Orientation Practicum	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 321-A_002	EDUC_V	321	A	A_002	School-based Orientation Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.
EDUC_V 321-A_215	EDUC_V	321	A	A_215	School-based Orientation Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Arranged	Arranged
EDUC_V 321-A_225	EDUC_V	321	A	A_225	School-based Orientation Practicum: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Arranged	Arranged
EDUC_V 321-A_640	EDUC_V	321	A	A_640	School-based Orientation Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Arranged	Arranged
EDUC_V 323-A_002	EDUC_V	323	A	A_002	School-based Orientation Practicum: Middle Years	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Thu	8:00 a.m. - 4:00 p.m.
EDUC_V 344-377	EDUC_V	344		377	Indigenous Education Seminar and Classroom Observation III	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC143, EDUC244	In Person Learning	Mon	1:30 p.m. - 3:00 p.m.
EDUC_V 399-001	EDUC_V	399		001	Field Experience and Seminar	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 399-002	EDUC_V	399		002	Field Experience and Seminar	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 399-003	EDUC_V	399		003	Field Experience and Seminar	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 399-004	EDUC_V	399		004	Field Experience and Seminar	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 399-005	EDUC_V	399		005	Field Experience and Seminar	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 399-006	EDUC_V	399		006	Field Experience and Seminar	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 399-301	EDUC_V	399		301	Field Experience and Seminar	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 399-640	EDUC_V	399		640	Field Experience and Seminar	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_101	EDUC_V	418	D	D_101	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_102	EDUC_V	418	D	D_102	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_103	EDUC_V	418	D	D_103	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_104	EDUC_V	418	D	D_104	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged

EDUC_V 418-D_105	EDUC_V	418	D	D_105	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_107	EDUC_V	418	D	D_107	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_108	EDUC_V	418	D	D_108	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_109	EDUC_V	418	D	D_109	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 418-D_640	EDUC_V	418	D	D_640	School-based Extended Practicum: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 321.	In Person Learning	Arranged	Arranged
EDUC_V 419-D_110	EDUC_V	419	D	D_110	School-based Extended Practicum: Middle Years	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EDUC 315, EDUC 323.	In Person Learning	Arranged	Arranged
EDUC_V 421-D_215	EDUC_V	421	D	D_215	School-based Extended Practicum: Secondary	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Arranged	Arranged
EDUC_V 421-D_301	EDUC_V	421	D	D_301	School-based Extended Practicum: Secondary	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Arranged	Arranged
EDUC_V 421-D_640	EDUC_V	421	D	D_640	School-based Extended Practicum: Secondary	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Arranged	Arranged
EDUC_V 421-D_521	EDUC_V	421	D	D_521	School-based Extended Practicum: Secondary	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 315.	In Person Learning	Arranged	Arranged
EDUC_V 430-215	EDUC_V	430		215	Community-based Field Experience	W1	Pass/Fail. Recommended pre-requisites: one of EDUC 418, EDUC 419, EDUC 421. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 440-A_301	EDUC_V	440	A	A_301	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 8:00 p.m.
EDUC_V 440-A_302	EDUC_V	440	A	A_302	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 8:00 p.m.
EDUC_V 440-A_303	EDUC_V	440	A	A_303	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 8:00 p.m.
EDUC_V 440-A_304	EDUC_V	440	A	A_304	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 12:00 p.m.
EDUC_V 440-A_305	EDUC_V	440	A	A_305	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:00 p.m. - 4:00 p.m.
EDUC_V 440-A_306	EDUC_V	440	A	A_306	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 8:00 p.m.
EDUC_V 440-A_307	EDUC_V	440	A	A_307	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:00 p.m. - 4:00 p.m.
EDUC_V 440-A_308	EDUC_V	440	A	A_308	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 8:00 p.m.
EDUC_V 440-A_309	EDUC_V	440	A	A_309	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:00 p.m. - 4:00 p.m.
EDUC_V 440-A_310	EDUC_V	440	A	A_310	Indigenous Education in Canada	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 12:00 p.m.
EDUC_V 440-C_101	EDUC_V	440	C	C_101	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 7:30 p.m.
EDUC_V 440-C_102	EDUC_V	440	C	C_102	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.

EDUC_V 440-C_103	EDUC_V	440	C	C_103	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.
EDUC_V 440-C_104	EDUC_V	440	C	C_104	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 12:00 p.m.
EDUC_V 440-C_105	EDUC_V	440	C	C_105	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 12:00 p.m.
EDUC_V 440-C_107	EDUC_V	440	C	C_107	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 12:00 p.m.
EDUC_V 440-C_108	EDUC_V	440	C	C_108	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:30 p.m.
EDUC_V 440-C_109	EDUC_V	440	C	C_109	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:30 p.m.
EDUC_V 440-C_110	EDUC_V	440	C	C_110	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.
EDUC_V 440-C_640	EDUC_V	440	C	C_640	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 440-C_641	EDUC_V	440	C	C_641	Indigenous Education in Canada	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 449-A_001	EDUC_V	449	A	A_001	Supervised Research Investigation	W1	Available only to outstanding students approved by the Associate Dean (Teacher Education). The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDUC_V 449-B_002	EDUC_V	449	B	B_002	Supervised Research Investigation	W2	Available only to outstanding students approved by the Associate Dean (Teacher Education). The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDUC_V 449-C_003	EDUC_V	449	C	C_003	Supervised Research Investigation	W1-2	Available only to outstanding students approved by the Associate Dean (Teacher Education). The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EDUC_V 450-A_101	EDUC_V	450	A	A_101	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
EDUC_V 450-A_102	EDUC_V	450	A	A_102	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
EDUC_V 450-A_103	EDUC_V	450	A	A_103	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
EDUC_V 450-A_104	EDUC_V	450	A	A_104	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
EDUC_V 450-A_105	EDUC_V	450	A	A_105	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
EDUC_V 450-A_107	EDUC_V	450	A	A_107	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
EDUC_V 450-A_108	EDUC_V	450	A	A_108	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
EDUC_V 450-A_109	EDUC_V	450	A	A_109	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EDUC_V 450-A_110	EDUC_V	450	A	A_110	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
EDUC_V 450-A_111	EDUC_V	450	A	A_111	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
EDUC_V 450-A_112	EDUC_V	450	A	A_112	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.

EDUC_V 450-A_113	EDUC_V	450	A	A_113	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
EDUC_V 450-A_114	EDUC_V	450	A	A_114	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
EDUC_V 450-A_115	EDUC_V	450	A	A_115	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
EDUC_V 450-A_117	EDUC_V	450	A	A_117	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
EDUC_V 450-A_118	EDUC_V	450	A	A_118	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
EDUC_V 450-A_119	EDUC_V	450	A	A_119	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EDUC_V 450-A_120	EDUC_V	450	A	A_120	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
EDUC_V 450-A_640	EDUC_V	450	A	A_640	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 450-A_641	EDUC_V	450	A	A_641	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 450-B_305	EDUC_V	450	B	B_305	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
EDUC_V 450-B_306	EDUC_V	450	B	B_306	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
EDUC_V 450-B_307	EDUC_V	450	B	B_307	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_308	EDUC_V	450	B	B_308	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_309	EDUC_V	450	B	B_309	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:30 a.m. - 12:30 p.m.
EDUC_V 450-B_311	EDUC_V	450	B	B_311	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_312	EDUC_V	450	B	B_312	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_320	EDUC_V	450	B	B_320	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_640	EDUC_V	450	B	B_640	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 450-B_641	EDUC_V	450	B	B_641	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EDUC_V 450-B_S14	EDUC_V	450	B	B_S14	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_S17	EDUC_V	450	B	B_S17	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
EDUC_V 450-B_S18	EDUC_V	450	B	B_S18	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_S19	EDUC_V	450	B	B_S19	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.

EDUC_V 450-B_S21	EDUC_V	450	B	B_S21	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
EDUC_V 450-B_S22	EDUC_V	450	B	B_S22	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_S23	EDUC_V	450	B	B_S23	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EDUC_V 450-B_S24	EDUC_V	450	B	B_S24	Inquiry Seminar I	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:00 p.m. - 3:00 p.m.
EDUC_V 451-A_101	EDUC_V	451	A	A_101	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Tue	8:00 a.m. - 10:30 a.m.
EDUC_V 451-A_102	EDUC_V	451	A	A_102	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Tue	10:00 a.m. - 12:30 p.m.
EDUC_V 451-A_103	EDUC_V	451	A	A_103	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.
EDUC_V 451-A_104	EDUC_V	451	A	A_104	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Tue	2:00 p.m. - 4:30 p.m.
EDUC_V 451-A_105	EDUC_V	451	A	A_105	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Wed	10:30 a.m. - 1:00 p.m.
EDUC_V 451-A_107	EDUC_V	451	A	A_107	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.
EDUC_V 451-A_108	EDUC_V	451	A	A_108	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Tue	8:00 a.m. - 10:30 a.m.
EDUC_V 451-A_109	EDUC_V	451	A	A_109	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EDUC_V 451-A_110	EDUC_V	451	A	A_110	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon	10:30 a.m. - 1:00 p.m.
EDUC_V 451-A_111	EDUC_V	451	A	A_111	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Tue	10:30 a.m. - 1:00 p.m.
EDUC_V 451-A_112	EDUC_V	451	A	A_112	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Fri	11:00 a.m. - 1:30 p.m.
EDUC_V 451-A_113	EDUC_V	451	A	A_113	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.
EDUC_V 451-A_114	EDUC_V	451	A	A_114	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Tue	11:30 a.m. - 2:00 p.m.
EDUC_V 451-A_115	EDUC_V	451	A	A_115	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Wed	2:00 p.m. - 4:30 p.m.
EDUC_V 451-A_117	EDUC_V	451	A	A_117	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Fri	10:30 a.m. - 1:00 p.m.
EDUC_V 451-A_118	EDUC_V	451	A	A_118	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Tue	1:30 p.m. - 4:00 p.m.
EDUC_V 451-A_119	EDUC_V	451	A	A_119	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon (Alternate weeks)	9:00 a.m. - 12:00 p.m.
EDUC_V 451-A_120	EDUC_V	451	A	A_120	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon	8:00 a.m. - 10:30 a.m.
EDUC_V 451-A_640	EDUC_V	451	A	A_640	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Arranged	Arranged

EDUC_V 451-A_641	EDUC_V	451	A	A_641	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Arranged	Arranged
EDUC_V 451-B_305	EDUC_V	451	B	B_305	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon Thu	8:30 a.m. - 12:00 p.m.
EDUC_V 451-B_306	EDUC_V	451	B	B_306	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
EDUC_V 451-B_307	EDUC_V	451	B	B_307	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
EDUC_V 451-B_308	EDUC_V	451	B	B_308	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon Thu	8:30 a.m. - 12:00 p.m.
EDUC_V 451-B_309	EDUC_V	451	B	B_309	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
EDUC_V 451-B_311	EDUC_V	451	B	B_311	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	8:30 a.m. - 12:00 p.m.
EDUC_V 451-B_312	EDUC_V	451	B	B_312	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
EDUC_V 451-B_320	EDUC_V	451	B	B_320	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
EDUC_V 451-B_640	EDUC_V	451	B	B_640	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Arranged	Arranged
EDUC_V 451-B_641	EDUC_V	451	B	B_641	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Arranged	Arranged
EDUC_V 451-B_S14	EDUC_V	451	B	B_S14	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon Thu	9:00 a.m. - 12:30 p.m.
EDUC_V 451-B_S17	EDUC_V	451	B	B_S17	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon Thu	8:30 a.m. - 12:00 p.m.
EDUC_V 451-B_S18	EDUC_V	451	B	B_S18	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	3:00 p.m. - 6:30 p.m.
EDUC_V 451-B_S19	EDUC_V	451	B	B_S19	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon Thu	8:30 a.m. - 12:00 p.m.
EDUC_V 451-B_S21	EDUC_V	451	B	B_S21	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
EDUC_V 451-B_S22	EDUC_V	451	B	B_S22	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon Thu	8:30 a.m. - 12:00 p.m.
EDUC_V 451-B_S23	EDUC_V	451	B	B_S23	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Mon	10:30 a.m. - 2:00 p.m.
EDUC_V 451-B_S24	EDUC_V	451	B	B_S24	Inquiry Seminar II	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
EDUC_V 452-B_301	EDUC_V	452	B	B_301	Inquiry Seminar III	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 451.	In Person Learning	Mon Tue Wed Thu Fri	4:30 p.m. - 8:30 p.m.
EDUC_V 490-DNU_J_302	EDUC_V	490	J	DNU_J_302	Special Studies in Education	W1-2	Topics not covered in a course. A pilot course may be offered under this name for only one year and with permission of the Associate Dean (Teacher Education).	In Person Learning	Arranged	Arranged
EDUC_V 490-H_302	EDUC_V	490	H	H_302	Special Studies in Education	W1	Topics not covered in a course. A pilot course may be offered under this name for only one year and with permission of the Associate Dean (Teacher Education).	In Person Learning	Arranged	Arranged
EDUC_V 490-I_302	EDUC_V	490	I	I_302	Special Studies in Education	W1-2	Topics not covered in a course. A pilot course may be offered under this name for only one year and with permission of the Associate Dean (Teacher Education).	In Person Learning	Arranged	Arranged





EDUC_V 500-61A	EDUC_V	500	61A	Research Methodology in Education	W1	Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDUC_V 500-61B	EDUC_V	500	61B	Research Methodology in Education	W1	Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDUC_V 500-61C	EDUC_V	500	61C	Research Methodology in Education	W1	Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDUC_V 500-62A	EDUC_V	500	62A	Research Methodology in Education	W2	Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDUC_V 500-62B	EDUC_V	500	62B	Research Methodology in Education	W2	Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDUC_V 500-62D	EDUC_V	500	62D	Research Methodology in Education	W2	Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDUC_V 500-62E	EDUC_V	500	62E	Research Methodology in Education	W2	Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
EDUC_V 503-A_081	EDUC_V	503	A	A_081	Ethnography and Education	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: [EDUC500] or other course in research methodology. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EDUC_V 504-081	EDUC_V	504	081	Seminar in Qualitative Data Analysis	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Previous course in qualitative research.	Hybrid Learning	Wed	1:00 p.m. - 4:00 p.m.	
EECE_V 501-101	EECE_V	501	101	Mathematical Methods for Electrical and Computer Engineering	W1	This course is not eligible for Credit/D/Fail grading. [3-0-0] Theoretical and practical issues in designing multimedia systems. Interactive multimedia, digital video broadcasting and streaming, media asset management, video indexing and retrieval, content protection, and design of multimedia middleware. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 1:00 p.m.	
EECE_V 541-101	EECE_V	541	101	Multimedia Systems	W1	Theoretical and practical issues in designing multimedia systems. Interactive multimedia, digital video broadcasting and streaming, media asset management, video indexing and retrieval, content protection, and design of multimedia middleware. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.	
EECE_V 541-201	EECE_V	541	201	Multimedia Systems	W2	Numerical aspects of time-domain simulation are reviewed. Dynamic modelling and analysis of power systems components including transformers, induction and synchronous machines, inverters, electric drives and associated controls. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.	
EECE_V 549-101	EECE_V	549	101	Dynamic Modelling of Electric Machines and Controls	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
EECE_V 550-201	EECE_V	550	201	Topics in Power Electronic Design	W2	Computer-oriented analysis of electric power systems with regard to multiphase line constants, steady-state analysis of single and parallel circuits, lightning and switching surges; large-scale solution of power-flow problems; optimal real and reactive power flow. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EECE_V 553-201	EECE_V	553	201	Advanced Power Systems Analysis	W2	Credit will be granted for only one of EECE 555 or ELEC 352. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EECE_V 555-101	EECE_V	555	101	Renewable and Efficient Electric Power Systems	W1	Solution of lumped and distributed networks. Time-domain solutions, discretization and integration rules. Frequency-domain solutions, FFT and windowing techniques. Systems of linear equations, reduction and sparsity techniques. Nonlinear elements. Computer-aided simulation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:30 p.m. - 8:30 p.m.	
EECE_V 560-201	EECE_V	560	201	Network Analysis and Simulation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
EECE_V 562-101	EECE_V	562	101	Statistical Signal Processing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
EECE_V 564-201	EECE_V	564	201	Signal Detection, Estimation, and Learning	W2	This course is not eligible for Credit/D/Fail grading. [3-0-0] Analysis and design of communications networks; network architectures; Internet protocols; routing; scheduling algorithms; medium access control; congestion control; admission control; optimization techniques; network management. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
EECE_V 565-101	EECE_V	565	101	Communication Networks	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.	
EECE_V 566-101	EECE_V	566	101	Information and Coding Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.	
EECE_V 566-201	EECE_V	566	201	Information and Coding Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.	
EECE_V 567-201	EECE_V	567	201	Power System Dynamics and Stability	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	

EECE_V 568-101	EECE_V	568	101	From Exploring to Building Machine Learning Models	W1	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
EECE_V 570-101	EECE_V	570	101	Fundamentals of Visual Computing	W1	Computational and mathematical methods for data driven processing and model-based analysis of digital images and other visual data: perception, capture; representation, modelling; enhancement, restoration; registration, fusion; feature extraction, segmentation; recognition; practical applications. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
EECE_V 570-201	EECE_V	570	201	Fundamentals of Visual Computing	W2	Computational and mathematical methods for data driven processing and model-based analysis of digital images and other visual data: perception, capture; representation, modelling; enhancement, restoration; registration, fusion; feature extraction, segmentation; recognition; practical applications. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
EECE_V 571-A_101	EECE_V	571	A	A_101	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
EECE_V 571-B_107	EECE_V	571	B	B_107	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 3:00 p.m.
EECE_V 571-C_106	EECE_V	571	C	C_106	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 571-C_203	EECE_V	571	C	C_203	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 11:00 a.m.
EECE_V 571-E_205	EECE_V	571	E	E_205	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
EECE_V 571-F_104	EECE_V	571	F	F_104	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:30 p.m. - 3:00 p.m.
EECE_V 571-G_202	EECE_V	571	G	G_202	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
EECE_V 571-I_101	EECE_V	571	I	I_101	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
EECE_V 571-J_206	EECE_V	571	J	J_206	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
EECE_V 571-L_209	EECE_V	571	L	L_209	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
EECE_V 571-M_108	EECE_V	571	M	M_108	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 571-N_103	EECE_V	571	N	N_103	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 571-P_204	EECE_V	571	P	P_204	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 571-R_102	EECE_V	571	R	R_102	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
EECE_V 571-T_207	EECE_V	571	T	T_207	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
EECE_V 571-Z_109	EECE_V	571	Z	Z_109	Electrical Engineering Seminar and Special Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 571-Z_203	EECE_V	571	Z	Z_203	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 571-Z_204	EECE_V	571	Z	Z_204	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 571-Z_208	EECE_V	571	Z	Z_208	Electrical Engineering Seminar and Special Problems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.

EECE_V 589-201	EECE_V	589	201	Introduction to Robotics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
EECE_V 589-T2A	EECE_V	589	T2A	Introduction to Robotics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
EECE_V 597-101	EECE_V	597	101	Directed Research	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 597-201	EECE_V	597	201	Directed Research	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 599-001	EECE_V	599	001	Thesis	W1-2	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 599-101	EECE_V	599	101	Thesis	W1	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 599-201	EECE_V	599	201	Thesis	W2	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EECE_V 699-001	EECE_V	699	001	Doctoral Dissertation	W1-2	For Ph.D.	In Person Learning	Arranged	Arranged
EECE_V 699-101	EECE_V	699	101	Doctoral Dissertation	W1	For Ph.D.	In Person Learning	Arranged	Arranged
EECE_V 699-201	EECE_V	699	201	Doctoral Dissertation	W2	For Ph.D.	In Person Learning	Arranged	Arranged
ELEC_V 201-101	ELEC_V	201	101	Circuit Analysis I	W1	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
ELEC_V 201-201	ELEC_V	201	201	Circuit Analysis I	W2	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Tue Thu	3:30 p.m. - 5:30 p.m.
ELEC_V 201-L1A	ELEC_V	201	L1A	Circuit Analysis I	W1	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Tue (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 201-L1B	ELEC_V	201	L1B	Circuit Analysis I	W1	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Wed (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 201-L1C	ELEC_V	201	L1C	Circuit Analysis I	W1	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Thu (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 201-L1D	ELEC_V	201	L1D	Circuit Analysis I	W1	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Fri (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 201-L2A	ELEC_V	201	L2A	Circuit Analysis I	W2	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Thu (Alternate weeks)	11:00 a.m. - 1:00 p.m.
ELEC_V 201-L2B	ELEC_V	201	L2B	Circuit Analysis I	W2	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Tue (Alternate weeks)	11:00 a.m. - 1:00 p.m.
ELEC_V 201-T1A	ELEC_V	201	T1A	Circuit Analysis I	W1	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Fri (Alternate weeks)	4:00 p.m. - 6:00 p.m.
ELEC_V 201-T2A	ELEC_V	201	T2A	Circuit Analysis I	W2	The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits. This course is not eligible for Credit/D/Fail grading. [4-2*-2*] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 7:00 p.m.

ELEC_V 202-101	ELEC_V	202	101	Circuit Analysis II	W1	Phasor analysis and AC three phase systems power; transfer functions; Bode plots; filters and resonance; Laplace transforms; transformers and mutual inductance; two-port networks. First and second order circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 101, one of PHYS 118, PHYS 158, one of MATH 255, MATH 256, and one of ELEC 201, ELEC 203.	In Person Learning	Mon Wed	3:00 p.m. - 5:00 p.m.
ELEC_V 202-201	ELEC_V	202	201	Circuit Analysis II	W2	Phasor analysis and AC three phase systems power; transfer functions; Bode plots; filters and resonance; Laplace transforms; transformers and mutual inductance; two-port networks. First and second order circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 101, one of PHYS 118, PHYS 158, one of MATH 255, MATH 256, and one of ELEC 201, ELEC 203.	In Person Learning	Mon Wed	3:00 p.m. - 5:00 p.m.
ELEC_V 202-T1A	ELEC_V	202	T1A	Circuit Analysis II	W1	Phasor analysis and AC three phase systems power; transfer functions; Bode plots; filters and resonance; Laplace transforms; transformers and mutual inductance; two-port networks. First and second order circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 101, one of PHYS 118, PHYS 158, one of MATH 255, MATH 256, and one of ELEC 201, ELEC 203.	In Person Learning	Fri (Alternate weeks)	2:00 p.m. - 4:00 p.m.
ELEC_V 202-T2A	ELEC_V	202	T2A	Circuit Analysis II	W2	Phasor analysis and AC three phase systems power; transfer functions; Bode plots; filters and resonance; Laplace transforms; transformers and mutual inductance; two-port networks. First and second order circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 101, one of PHYS 118, PHYS 158, one of MATH 255, MATH 256, and one of ELEC 201, ELEC 203.	In Person Learning	Mon (Alternate weeks)	5:00 p.m. - 7:00 p.m.
ELEC_V 203-101	ELEC_V	203	101	Basic Circuit Analysis	W1	Ideal passive elements and sources; Kirchhoff's Laws; DC circuits; natural and complete response of first order circuits; operational amplifiers; impedance; phasors; complex power. Not open to students in Electrical and Computer Engineering. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
ELEC_V 203-L1A	ELEC_V	203	L1A	Basic Circuit Analysis	W1	Ideal passive elements and sources; Kirchhoff's Laws; DC circuits; natural and complete response of first order circuits; operational amplifiers; impedance; phasors; complex power. Not open to students in Electrical and Computer Engineering. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256.	In Person Learning	Wed (Alternate weeks)	9:00 a.m. - 11:00 a.m.
ELEC_V 203-L1B	ELEC_V	203	L1B	Basic Circuit Analysis	W1	Ideal passive elements and sources; Kirchhoff's Laws; DC circuits; natural and complete response of first order circuits; operational amplifiers; impedance; phasors; complex power. Not open to students in Electrical and Computer Engineering. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256.	In Person Learning	Thu (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 203-L1C	ELEC_V	203	L1C	Basic Circuit Analysis	W1	Ideal passive elements and sources; Kirchhoff's Laws; DC circuits; natural and complete response of first order circuits; operational amplifiers; impedance; phasors; complex power. Not open to students in Electrical and Computer Engineering. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256.	In Person Learning	Tue (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 203-L1D	ELEC_V	203	L1D	Basic Circuit Analysis	W1	Ideal passive elements and sources; Kirchhoff's Laws; DC circuits; natural and complete response of first order circuits; operational amplifiers; impedance; phasors; complex power. Not open to students in Electrical and Computer Engineering. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256.	In Person Learning	Fri (Alternate weeks)	8:00 a.m. - 10:00 a.m.
ELEC_V 203-L1E	ELEC_V	203	L1E	Basic Circuit Analysis	W1	Ideal passive elements and sources; Kirchhoff's Laws; DC circuits; natural and complete response of first order circuits; operational amplifiers; impedance; phasors; complex power. Not open to students in Electrical and Computer Engineering. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256.	In Person Learning	Mon (Alternate weeks)	11:00 a.m. - 1:00 p.m.
ELEC_V 203-T1A	ELEC_V	203	T1A	Basic Circuit Analysis	W1	Ideal passive elements and sources; Kirchhoff's Laws; DC circuits; natural and complete response of first order circuits; operational amplifiers; impedance; phasors; complex power. Not open to students in Electrical and Computer Engineering. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
ELEC_V 204-101	ELEC_V	204	101	Linear Circuits	W1	Basic concepts and analysis techniques in the context of electric and electronic circuits including Bode plots and the Laplace transform. Treatment of RLC circuits, phasors, op-amps. Introduction to nonlinear circuit elements, diodes, BJT, FET circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 152 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 256, MATH 255.	In Person Learning	Tue Thu	3:30 p.m. - 5:30 p.m.
ELEC_V 204-T1A	ELEC_V	204	T1A	Linear Circuits	W1	Basic concepts and analysis techniques in the context of electric and electronic circuits including Bode plots and the Laplace transform. Treatment of RLC circuits, phasors, op-amps. Introduction to nonlinear circuit elements, diodes, BJT, FET circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 152 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 256, MATH 255.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
ELEC_V 205-L1A	ELEC_V	205	L1A	Electronics Laboratory	W1	Experiments involving electronic devices and circuits. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: ELEC 204.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 7:00 p.m.
ELEC_V 205-L1B	ELEC_V	205	L1B	Electronics Laboratory	W1	Experiments involving electronic devices and circuits. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: ELEC 204.	In Person Learning	Arranged	Arranged
ELEC_V 205-L1C	ELEC_V	205	L1C	Electronics Laboratory	W1	Experiments involving electronic devices and circuits. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: ELEC 204.	In Person Learning	Fri (Alternate weeks)	5:00 p.m. - 7:00 p.m.
ELEC_V 205-L1D	ELEC_V	205	L1D	Electronics Laboratory	W1	Experiments involving electronic devices and circuits. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: ELEC 204.	In Person Learning	Arranged	Arranged
ELEC_V 205-L1F	ELEC_V	205	L1F	Electronics Laboratory	W1	Experiments involving electronic devices and circuits. This course is not eligible for Credit/D/Fail grading. [0-2*-0] Corequisite: ELEC 204.	In Person Learning	Thu (Alternate weeks)	5:30 p.m. - 7:30 p.m.
ELEC_V 211-201	ELEC_V	211	201	Engineering Electromagnetics	W2	Electrostatics, electric currents, dielectrics, capacitance, electrostatic potential, magnetostatics. This course is not eligible for Credit/D/Fail grading. [2-0-1] Prerequisite: One of MATH 263, MATH 253 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: MATH 264.	In Person Learning	Thu	12:00 p.m. - 12:30 p.m.

ELEC_V 211-202	ELEC_V	211	202	Engineering Electromagnetics	W2	Electrostatics, electric currents, dielectrics, capacitance, electrostatic potential, magnetostatics. This course is not eligible for Credit/D/Fail grading. [2-0-1] Prerequisite: One of MATH 263, MATH 253 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: MATH 264.	In Person Learning	Thu	3:00 p.m. - 3:30 p.m.	
ELEC_V 211-T2A	ELEC_V	211	T2A	Engineering Electromagnetics	W2	Electrostatics, electric currents, dielectrics, capacitance, electrostatic potential, magnetostatics. This course is not eligible for Credit/D/Fail grading. [2-0-1] Prerequisite: One of MATH 263, MATH 253 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: MATH 264.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 7:00 p.m.	
ELEC_V 221-101	ELEC_V	221	101	Signals and Systems	W1	Complex numbers, LTI systems, convolution sum, discrete-time Fourier series and transforms, z-transform, sampling, introduction to filtering and modulation, feedback systems, stability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 256, MATH 255.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
ELEC_V 221-201	ELEC_V	221	201	Signals and Systems	W2	Complex numbers, LTI systems, convolution sum, discrete-time Fourier series and transforms, z-transform, sampling, introduction to filtering and modulation, feedback systems, stability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 256, MATH 255.	In Person Learning	Tue Thu	5:30 p.m. - 7:00 p.m.	
ELEC_V 221-T1A	ELEC_V	221	T1A	Signals and Systems	W1	Complex numbers, LTI systems, convolution sum, discrete-time Fourier series and transforms, z-transform, sampling, introduction to filtering and modulation, feedback systems, stability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 256, MATH 255.	In Person Learning	Mon	5:30 p.m. - 7:30 p.m.	
ELEC_V 221-T2A	ELEC_V	221	T2A	Signals and Systems	W2	Complex numbers, LTI systems, convolution sum, discrete-time Fourier series and transforms, z-transform, sampling, introduction to filtering and modulation, feedback systems, stability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 256, MATH 255.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.	
ELEC_V 271-201	ELEC_V	271	201	Selected Topics in Biomedical Engineering	W2	Effective communication in a multi-disciplinary environment, introduction to emerging areas of biomedical engineering and biotechnology, ethics, and responsibility. Restricted to students admitted to the Biomedical Engineering program in Electrical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-0] Corequisite: ELEC 202.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.	
ELEC_V 281-201	ELEC_V	281	201	Technical Communication	W2	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
ELEC_V 281-202	ELEC_V	281	202	Technical Communication	W2	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
ELEC_V 281-203	ELEC_V	281	203	Technical Communication	W2	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
ELEC_V 281-204	ELEC_V	281	204	Technical Communication	W2	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
ELEC_V 281-205	ELEC_V	281	205	Technical Communication	W2	Written and oral communication in engineering. Technical description, report preparation, business correspondence, and oral presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BMEG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ELEC_V 291-201	ELEC_V	291	201	Electrical Engineering Design Studio I	W2	Design projects involving electronic devices and circuits, electromagnetics, signals and systems, and microcomputers. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of ELEC 201, CPEN 211.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.	
ELEC_V 291-L2A	ELEC_V	291	L2A	Electrical Engineering Design Studio I	W2	Design projects involving electronic devices and circuits, electromagnetics, signals and systems, and microcomputers. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of ELEC 201, CPEN 211.	In Person Learning	Tue Thu	1:00 p.m. - 4:00 p.m.	
ELEC_V 291-L2B	ELEC_V	291	L2B	Electrical Engineering Design Studio I	W2	Design projects involving electronic devices and circuits, electromagnetics, signals and systems, and microcomputers. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of ELEC 201, CPEN 211.	In Person Learning	Tue Thu	8:00 a.m. - 11:00 a.m.	
ELEC_V 292-201	ELEC_V	292	201	Biomedical Engineering Design Studio	W2	Design projects involving electronic devices and circuits, electromagnetics, signals and systems, microcomputers with applications in biomedical engineering. Final group project requiring oral presentation of student-prepared slides. This course is not eligible for Credit/D/Fail grading. [2-6-0] Corequisite: All of ELEC 201, CPEN 211, ELEC 221.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.	
ELEC_V 292-L2A	ELEC_V	292	L2A	Biomedical Engineering Design Studio	W2	Design projects involving electronic devices and circuits, electromagnetics, signals and systems, microcomputers with applications in biomedical engineering. Final group project requiring oral presentation of student-prepared slides. This course is not eligible for Credit/D/Fail grading. [2-6-0] Corequisite: All of ELEC 201, CPEN 211, ELEC 221.	In Person Learning	Tue Thu	1:00 p.m. - 4:00 p.m.	
ELEC_V 300-R_001	ELEC_V	300	R	R_001	Special Topics in Electrical Engineering	W1-2	Lectures or projects on subjects of current interest. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
ELEC_V 301-101	ELEC_V	301	101	Electronic Circuits	W1	Analysis and design of electronic circuits; biasing of and small-signal models for transistors; frequency response of amplifiers; feedback and stability aspects of amplifier design; OP-AMPS; active filters; oscillators; IC specification and selection. Credit will only be given for one of EECE 356, ELEC 301, and EECE 374. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: Either (a) one of ELEC 201, ELEC 203 and ELEC 202; or (b) ELEC 204.	In Person Learning	Mon	3:30 p.m. - 4:30 p.m.	

ELEC_V 301-201	ELEC_V	301	201	Electronic Circuits	W2	Analysis and design of electronic circuits; biasing of and small-signal models for transistors; frequency response of amplifiers; feedback and stability aspects of amplifier design; OP-AMPs; active filters; oscillators; IC specification and selection. Credit will only be given for one of EECE 356, ELEC 301, and EECE 374. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: Either (a) one of ELEC 201, ELEC 203 and ELEC 202; or (b) ELEC 204.	In Person Learning	Mon Wed	9:00 a.m. - 11:00 a.m.
ELEC_V 302-201	ELEC_V	302	201	Electronic Circuits for Electromechanical Design	W2	Semiconductor fundamentals; modelling of electronic devices including diodes and transistors; design of power supplies, waveform generators and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 203, ELEC 204, MECH 221.	In Person Learning	Mon Fri	11:00 a.m. - 12:30 p.m.
ELEC_V 302-L2A	ELEC_V	302	L2A	Electronic Circuits for Electromechanical Design	W2	Semiconductor fundamentals; modelling of electronic devices including diodes and transistors; design of power supplies, waveform generators and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 203, ELEC 204, MECH 221.	In Person Learning	Mon (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 302-L2B	ELEC_V	302	L2B	Electronic Circuits for Electromechanical Design	W2	Semiconductor fundamentals; modelling of electronic devices including diodes and transistors; design of power supplies, waveform generators and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 203, ELEC 204, MECH 221.	In Person Learning	Tue (Alternate weeks)	1:00 p.m. - 3:00 p.m.
ELEC_V 302-L2C	ELEC_V	302	L2C	Electronic Circuits for Electromechanical Design	W2	Semiconductor fundamentals; modelling of electronic devices including diodes and transistors; design of power supplies, waveform generators and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 203, ELEC 204, MECH 221.	In Person Learning	Mon (Alternate weeks)	3:00 p.m. - 5:00 p.m.
ELEC_V 302-L2D	ELEC_V	302	L2D	Electronic Circuits for Electromechanical Design	W2	Semiconductor fundamentals; modelling of electronic devices including diodes and transistors; design of power supplies, waveform generators and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 203, ELEC 204, MECH 221.	In Person Learning	Thu (Alternate weeks)	11:00 a.m. - 1:00 p.m.
ELEC_V 302-L2E	ELEC_V	302	L2E	Electronic Circuits for Electromechanical Design	W2	Semiconductor fundamentals; modelling of electronic devices including diodes and transistors; design of power supplies, waveform generators and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 203, ELEC 204, MECH 221.	In Person Learning	Fri (Alternate weeks)	2:00 p.m. - 4:00 p.m.
ELEC_V 311-101	ELEC_V	311	101	Electromagnetic Fields and Waves	W1	Waves and propagation: Maxwell's equations; applications including transmission lines; impedance matching and Smith charts; reflection and refraction; waveguides and antennas. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: ELEC 211 and either (a) all of MATH 101, MATH 263, MATH 265, MATH 267 or (b) all of MATH 101, MATH 253, MATH 264, MATH 265, MATH 267 or (c) all of MATH 101, MATH 253, MATH 256, MATH 264.	In Person Learning	Wed Fri	11:00 a.m. - 1:00 p.m.
ELEC_V 311-201	ELEC_V	311	201	Electromagnetic Fields and Waves	W2	Waves and propagation: Maxwell's equations; applications including transmission lines; impedance matching and Smith charts; reflection and refraction; waveguides and antennas. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: ELEC 211 and either (a) all of MATH 101, MATH 263, MATH 265, MATH 267 or (b) all of MATH 101, MATH 253, MATH 264, MATH 265, MATH 267 or (c) all of MATH 101, MATH 253, MATH 256, MATH 264.	In Person Learning	Tue Thu	11:00 a.m. - 1:00 p.m.
ELEC_V 315-101	ELEC_V	315	101	Electronic Materials and Devices	W1	Fundamental aspects of electronic materials such as: semiconductors, metals, dielectrics, piezoelectrics, magnetic materials, and their applications in devices such as diodes, transistors, and transducers. Recommended third-year standing in B.A.Sc. This course is not eligible for Credit/D/Fail grading. [4-0-0]	In Person Learning	Wed Fri	9:00 a.m. - 11:00 a.m.
ELEC_V 315-201	ELEC_V	315	201	Electronic Materials and Devices	W2	Fundamental aspects of electronic materials such as: semiconductors, metals, dielectrics, piezoelectrics, magnetic materials, and their applications in devices such as diodes, transistors, and transducers. Recommended third-year standing in B.A.Sc. This course is not eligible for Credit/D/Fail grading. [4-0-0]	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
ELEC_V 331-101	ELEC_V	331	101	Computer Communications	W1	Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), Internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPEN 331.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ELEC_V 331-201	ELEC_V	331	201	Computer Communications	W2	Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), Internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPEN 331.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ELEC_V 331-T1A	ELEC_V	331	T1A	Computer Communications	W1	Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), Internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPEN 331.	In Person Learning	Arranged	Arranged
ELEC_V 331-T1B	ELEC_V	331	T1B	Computer Communications	W1	Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), Internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPEN 331.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
ELEC_V 331-T2A	ELEC_V	331	T2A	Computer Communications	W2	Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), Internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPEN 331.	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
ELEC_V 341-101	ELEC_V	341	101	Systems and Control	W1	Continuous time system analysis by Laplace transforms; system modelling by transfer function and state space methods; feedback, stability and sensitivity; control design; frequency domain analysis. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: One of ELEC 202, ELEC 204.	In Person Learning	Wed Fri	3:00 p.m. - 5:00 p.m.
ELEC_V 341-201	ELEC_V	341	201	Systems and Control	W2	Continuous time system analysis by Laplace transforms; system modelling by transfer function and state space methods; feedback, stability and sensitivity; control design; frequency domain analysis. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: One of ELEC 202, ELEC 204.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.





ELEC_V 352-201	ELEC_V	352	201	Electric Energy Systems	W2	Overview of three-phase energy systems. High-voltage transmission, low-voltage distribution. Performance of renewable electricity generation. Grid integration of renewable energy systems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of ELEC 202, ELEC 342.	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.
ELEC_V 352-T2A	ELEC_V	352	T2A	Electric Energy Systems	W2	Overview of three-phase energy systems. High-voltage transmission, low-voltage distribution. Performance of renewable electricity generation. Grid integration of renewable energy systems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of ELEC 202, ELEC 342.	In Person Learning	Tue	5:30 p.m. - 7:30 p.m.
ELEC_V 371-201	ELEC_V	371	201	Biomedical Engineering Instrumentation	W2	Theory and experiments involving instruments for general, orthopedic, cardiac and minimally invasive surgery as well as sensors for respiratory, cardiac, bioelectric, biochemical and nervous system measurement. Restricted to students admitted to the Biomedical Engineering option in Electrical Engineering and the Biomedical Engineering program. This course is cross-listed with BMEG 321. Credit will only be given for one of ELEC 371 or BMEG 321. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: Either (a) all of MATH 265, MATH 267 or (b) MATH 256; and either (a) all of ELEC 202, ELEC 292 or (b) all of BMEG 220, BMEG 257. Equivalency: BMEG 321	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ELEC_V 371-L2A	ELEC_V	371	L2A	Biomedical Engineering Instrumentation	W2	Theory and experiments involving instruments for general, orthopedic, cardiac and minimally invasive surgery as well as sensors for respiratory, cardiac, bioelectric, biochemical and nervous system measurement. Restricted to students admitted to the Biomedical Engineering option in Electrical Engineering and the Biomedical Engineering program. This course is cross-listed with BMEG 321. Credit will only be given for one of ELEC 371 or BMEG 321. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: Either (a) all of MATH 265, MATH 267 or (b) MATH 256; and either (a) all of ELEC 202, ELEC 292 or (b) all of BMEG 220, BMEG 257. Equivalency: BMEG 321	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
ELEC_V 391-201	ELEC_V	391	201	Electrical Engineering Design Studio II	W2	Introduction to project management. Problem definition. Design principles and practices. Implementation techniques including circuit design, software design, solid modelling, PCBs, assembling, and packaging. Testing and evaluation. Effective presentations. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: One of CPEN 291, ELEC 291, ELEC 292 and two of ELEC 301, ELEC 341, ELEC 311, ELEC 342.	In Person Learning	Mon Wed	3:00 p.m. - 5:00 p.m.
ELEC_V 391-L2A	ELEC_V	391	L2A	Electrical Engineering Design Studio II	W2	Introduction to project management. Problem definition. Design principles and practices. Implementation techniques including circuit design, software design, solid modelling, PCBs, assembling, and packaging. Testing and evaluation. Effective presentations. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: One of CPEN 291, ELEC 291, ELEC 292 and two of ELEC 301, ELEC 341, ELEC 311, ELEC 342.	In Person Learning	Tue Thu	8:00 a.m. - 11:00 a.m.
ELEC_V 391-L2B	ELEC_V	391	L2B	Electrical Engineering Design Studio II	W2	Introduction to project management. Problem definition. Design principles and practices. Implementation techniques including circuit design, software design, solid modelling, PCBs, assembling, and packaging. Testing and evaluation. Effective presentations. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: One of CPEN 291, ELEC 291, ELEC 292 and two of ELEC 301, ELEC 341, ELEC 311, ELEC 342.	In Person Learning	Tue Thu	12:30 p.m. - 3:30 p.m.
ELEC_V 391-L2C	ELEC_V	391	L2C	Electrical Engineering Design Studio II	W2	Introduction to project management. Problem definition. Design principles and practices. Implementation techniques including circuit design, software design, solid modelling, PCBs, assembling, and packaging. Testing and evaluation. Effective presentations. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: One of CPEN 291, ELEC 291, ELEC 292 and two of ELEC 301, ELEC 341, ELEC 311, ELEC 342.	In Person Learning	Tue Thu	4:30 p.m. - 7:30 p.m.
ELEC_V 400-N_101	ELEC_V	400	N	N_101	W1	Topics in Electrical Engineering	In Person Learning	Arranged	Arranged
ELEC_V 401-101	ELEC_V	401	101	Analog CMOS Integrated Circuit Design	W1	Design and analysis of analog integrated circuits, with emphasis on CMOS design techniques. Gain stages, opamp design, frequency compensation, oscillators, A/D, D/A converters, PLL, DLL. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of ELEC 301, ELEC 302.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ELEC_V 401-T1A	ELEC_V	401	T1A	Analog CMOS Integrated Circuit Design	W1	Design and analysis of analog integrated circuits, with emphasis on CMOS design techniques. Gain stages, opamp design, frequency compensation, oscillators, A/D, D/A converters, PLL, DLL. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of ELEC 301, ELEC 302.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
ELEC_V 402-101	ELEC_V	402	101	Introduction to VLSI Systems	W1	Static CMOS combinational logic circuits. Standard cells design and layout. Memory element (flip-flop and latch) design. Dynamic logic families. Synchronous logic and timing analysis. Power, scaling, and industry trends. Verification. VHDL/Verilog design, layout and synthesis project using CAD tools. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CPEN 311.	In Person Learning	Tue Thu	5:30 p.m. - 7:00 p.m.
ELEC_V 402-T1A	ELEC_V	402	T1A	Introduction to VLSI Systems	W1	Static CMOS combinational logic circuits. Standard cells design and layout. Memory element (flip-flop and latch) design. Dynamic logic families. Synchronous logic and timing analysis. Power, scaling, and industry trends. Verification. VHDL/Verilog design, layout and synthesis project using CAD tools. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CPEN 311.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
ELEC_V 403-201	ELEC_V	403	201	Advanced Digital VLSI Systems	W2	Logical effort. Noise in digital systems. Low power techniques. Power distribution. SRAM and DRAM design. Non-volatile memory technologies. High speed adder, multiplier and divider design. Clock Trees. Synchronization and FIFO. Scaling, and industry trends. High-speed circuit design and layout project. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 402.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ELEC_V 404-201	ELEC_V	404	201	RF Integrated Circuits	W2	Introduction to radio-frequency (RF) communication systems; matching networks, transceiver architectures, low noise amplifiers, mixers, oscillators, etc. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: ELEC 221. Corequisite: ELEC 401.	In Person Learning	Mon Wed	6:30 p.m. - 8:00 p.m.
ELEC_V 404-T2A	ELEC_V	404	T2A	RF Integrated Circuits	W2	Introduction to radio-frequency (RF) communication systems; matching networks, transceiver architectures, low noise amplifiers, mixers, oscillators, etc. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: ELEC 221. Corequisite: ELEC 401.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
ELEC_V 411-101	ELEC_V	411	101	Antennas and Propagation	W1	Basic antenna concepts; antennas for low, medium and high frequencies; terrestrial and satellite propagation links; environmental effects on electromagnetic radiation. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of ELEC 311, PHYS 301, PHYS 354.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ELEC_V 412-101	ELEC_V	412	101	Optical Waveguides and Photonics	W1	Planar dielectric waveguides; single mode optical fibers; integrated optics waveguides and devices; resonators; transfer matrix methods; optical communications links. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ELEC_V 412-201	ELEC_V	412	201	Optical Waveguides and Photonics	W2	Planar dielectric waveguides; single mode optical fibers; integrated optics waveguides and devices; resonators; transfer matrix methods; optical communications links. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged

ELEC_V 413-201	ELEC_V	413	201	Semiconductor Lasers	W2	An introduction to lasers and applications. Theory, modelling, fabrication and performance of semiconductor lasers. Optical communications links. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
ELEC_V 415-201	ELEC_V	415	201	Semiconductor Devices: Physics, Design and Analysis	W2	Physics of operation, and design and analysis of semiconductor devices of topical interest, e.g., solar cells, LEDs, high-speed MOSFETs, high-frequency HBTs, low-noise HEMTs. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of ELEC 315, PHYS 304.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ELEC_V 421-101	ELEC_V	421	101	Digital Signal and Image Processing	W1	DSP fundamentals; image processing; signal representation; digital filtering; statistical estimation; DSP applications. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: ELEC 221.	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
ELEC_V 421-T1A	ELEC_V	421	T1A	Digital Signal and Image Processing	W1	DSP fundamentals; image processing; signal representation; digital filtering; statistical estimation; DSP applications. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: ELEC 221.	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
ELEC_V 422-201	ELEC_V	422	201	Biosignals and Systems	W2	Data acquisition, time and frequency domain analysis, analog and discrete filter design, sampling theory, time-dependent processing, linear prediction, random signals, biomedical system modelling, and stability analysis; introduction to nonlinear systems. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of ELEC 371, ELEC 341, ELEC 221 and one of CPSC 260, CPSC 259 and one of STAT 251, MATH 318, MATH 302, STAT 302.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ELEC_V 431-101	ELEC_V	431	101	Communication Systems I	W1	Review of probability theory, signals and noise; digital communication over Gaussian noise channels, optimal receiver design, modulation techniques and error performance calculations; measure of information, source coding, symbol and stream codes; channel coding, capacity, simple linear block codes; practical applications. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 221 and one of ELEC 321, MATH 302, MATH 318, STAT 251, STAT 302, STAT 357.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ELEC_V 431-201	ELEC_V	431	201	Communication Systems I	W2	Review of probability theory, signals and noise; digital communication over Gaussian noise channels, optimal receiver design, modulation techniques and error performance calculations; measure of information, source coding, symbol and stream codes; channel coding, capacity, simple linear block codes; practical applications. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 221 and one of ELEC 321, MATH 302, MATH 318, STAT 251, STAT 302, STAT 357.	In Person Learning	Arranged	Arranged
ELEC_V 433-201	ELEC_V	433	201	Error Control Coding for Communications and Computers	W2	Design techniques, including Hamming, BCH, Reed-Solomon, LDPC and convolutional codes, ARQ techniques, and LFSR implementation of encoding-decoding algorithms. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ELEC_V 441-201	ELEC_V	441	201	Control Systems	W2	Relationships between system parameters and system responses for linear control systems. Design specifications for dynamic and steady-state performance and realization by use of feedback control. Robust design of PID controllers and multivariable controllers. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 341.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ELEC_V 442-101	ELEC_V	442	101	Introduction to Robotics	W1	Common manipulator configurations, actuator and sensor technology. Efficient representations and computational methods for real-time microprocessor-based implementation of robot control algorithms. Robot control methods, network equivalents, impedance control. Introduction to teleoperation implementation aspects. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: PHYS 170.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ELEC_V 442-201	ELEC_V	442	201	Introduction to Robotics	W2	Common manipulator configurations, actuator and sensor technology. Efficient representations and computational methods for real-time microprocessor-based implementation of robot control algorithms. Robot control methods, network equivalents, impedance control. Introduction to teleoperation implementation aspects. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: PHYS 170.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ELEC_V 451-101	ELEC_V	451	101	Power Electronics	W1	Power diodes, thyristors, transistors and FETs; analysis of idealized circuits with generalized loads; AC-DC, DC-DC, DC-AC, AC-AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ELEC_V 451-201	ELEC_V	451	201	Power Electronics	W2	Power diodes, thyristors, transistors and FETs; analysis of idealized circuits with generalized loads; AC-DC, DC-DC, DC-AC, AC-AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342.	In Person Learning	Arranged	Arranged
ELEC_V 451-L1A	ELEC_V	451	L1A	Power Electronics	W1	Power diodes, thyristors, transistors and FETs; analysis of idealized circuits with generalized loads; AC-DC, DC-DC, DC-AC, AC-AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.
ELEC_V 451-L1B	ELEC_V	451	L1B	Power Electronics	W1	Power diodes, thyristors, transistors and FETs; analysis of idealized circuits with generalized loads; AC-DC, DC-DC, DC-AC, AC-AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342.	In Person Learning	Fri	12:00 p.m. - 3:00 p.m.
ELEC_V 451-L2A	ELEC_V	451	L2A	Power Electronics	W2	Power diodes, thyristors, transistors and FETs; analysis of idealized circuits with generalized loads; AC-DC, DC-DC, DC-AC, AC-AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342.	In Person Learning	Arranged	Arranged
ELEC_V 451-L2B	ELEC_V	451	L2B	Power Electronics	W2	Power diodes, thyristors, transistors and FETs; analysis of idealized circuits with generalized loads; AC-DC, DC-DC, DC-AC, AC-AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342.	In Person Learning	Arranged	Arranged
ELEC_V 453-101	ELEC_V	453	101	Power System Analysis	W1	Transmission and distribution; phasors, complex power; balanced/unbalanced three-phase operation; symmetrical components, sequence networks; voltage regulation; short circuit capacity; circuit breakers; transmission lines, series/shunt impedance; short, medium, and long line models. This course is not eligible for Credit/D/Fail grading. Prerequisite: ELEC 342.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ELEC_V 453-T1A	ELEC_V	453	T1A	Power System Analysis	W1	Transmission and distribution; phasors, complex power; balanced/unbalanced three-phase operation; symmetrical components, sequence networks; voltage regulation; short circuit capacity; circuit breakers; transmission lines, series/shunt impedance; short, medium, and long line models. This course is not eligible for Credit/D/Fail grading. Prerequisite: ELEC 342.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
ELEC_V 454-201	ELEC_V	454	201	Power System Analysis II	W2	Power system monitoring/control; large networks; automatic generation control; optimum power flow calculations; traveling wave transmission lines; EMTF and MATLAB programs for transients, short-circuit, and transient stability analysis. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: ELEC 453.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.

ELEC_V 454-T2A	ELEC_V	454		T2A	Power System Analysis II	W2	Power system monitoring/control; large networks; automatic generation control; optimum power flow calculations; traveling wave transmission lines; EMTF and MATLAB programs for transients, short-circuit, and transient stability analysis. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: ELEC 453.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
ELEC_V 455-201	ELEC_V	455		201	Power Systems Protection	W2	Analysis of disturbances, security of power systems, cascading and blackouts; role and impact of protection; transducers and measuring elements; protection of transmission and distribution systems; protection of generators, substation equipment, special protection systems and relays. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of ELEC 453, ELEC 342.	In Person Learning	Wed	3:30 p.m. - 6:30 p.m.
ELEC_V 456-201	ELEC_V	456		201	Decision Support Methods in Power Systems Operation	W2	Principles; acceptable regions of operation; energy management systems; load flow methods; static and dynamic security; contingency analysis; transient and voltage stability; online stability assessment. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
ELEC_V 457-101	ELEC_V	457		101	Optimization of Power System Operation	W1	Application of linear and nonlinear optimization methods in power systems; constrained optimization; optimal power flow; economic dispatch; electricity market; local prices for active and reactive power; security-constrained OPF; state estimation, reliability analysis. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Fri	4:00 p.m. - 7:00 p.m.
ELEC_V 457-T1A	ELEC_V	457		T1A	Optimization of Power System Operation	W1	Application of linear and nonlinear optimization methods in power systems; constrained optimization; optimal power flow; economic dispatch; electricity market; local prices for active and reactive power; security-constrained OPF; state estimation, reliability analysis. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
ELEC_V 461-101	ELEC_V	461		101	Nanotechnology in Electronics	W1	Topics of special importance to understanding and designing electronic devices in which quantum effects and the discrete nature of matter become important. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CHEM 312, ELEC 315, PHYS 250, PHYS 304. Corequisite: One of APSC 201, MTRL 478.	In Person Learning	Arranged	Arranged
ELEC_V 462-101	ELEC_V	462		101	Sensors and Actuators in Microsystems	W1	The mechanisms, design, fabrication, and testing of microsensors, actuators, and microelectromechanical systems (MEMS). This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ELEC_V 463-101	ELEC_V	463		101	Micro/Nanofabrication and Instrumentation Laboratory	W1	Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Recommended Prerequisite: ELEC 315. This course is not eligible for Credit/D/Fail grading. [2-3-0]	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
ELEC_V 463-L1A	ELEC_V	463		L1A	Micro/Nanofabrication and Instrumentation Laboratory	W1	Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Recommended Prerequisite: ELEC 315. This course is not eligible for Credit/D/Fail grading. [2-3-0]	In Person Learning	Arranged	Arranged
ELEC_V 463-L1B	ELEC_V	463		L1B	Micro/Nanofabrication and Instrumentation Laboratory	W1	Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Recommended Prerequisite: ELEC 315. This course is not eligible for Credit/D/Fail grading. [2-3-0]	In Person Learning	Arranged	Arranged
ELEC_V 463-L1C	ELEC_V	463		L1C	Micro/Nanofabrication and Instrumentation Laboratory	W1	Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Recommended Prerequisite: ELEC 315. This course is not eligible for Credit/D/Fail grading. [2-3-0]	In Person Learning	Arranged	Arranged
ELEC_V 463-L1D	ELEC_V	463		L1D	Micro/Nanofabrication and Instrumentation Laboratory	W1	Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Recommended Prerequisite: ELEC 315. This course is not eligible for Credit/D/Fail grading. [2-3-0]	In Person Learning	Arranged	Arranged
ELEC_V 465-101	ELEC_V	465		101	Microsystems Design	W1	Structured modelling and design practices; multiphysics at microscales; physical limitations in MEMS; interface with electronics; behavioural modelling languages for mixed analog-digital system design. Credit will only be given for one of ELEC 465, or EECE 581. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
ELEC_V 465-201	ELEC_V	465		201	Microsystems Design	W2	Structured modelling and design practices; multiphysics at microscales; physical limitations in MEMS; interface with electronics; behavioural modelling languages for mixed analog-digital system design. Credit will only be given for one of ELEC 465, or EECE 581. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ELEC_V 471-102	ELEC_V	471		102	Medical Imaging	W1	Physical principles of ultrasound, magnetic resonance, computed tomography, X-ray projection imaging and molecular imaging in medical imaging for diagnostics, therapeutics, and interventions. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of ELEC 371, ELEC 341, ELEC 311, ELEC 221. Equivalency: BMEG420	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
ELEC_V 473-101	ELEC_V	473		101	Biological Micro-Electro-Mechanical Systems	W1	Principles of sensors, actuators, microfluidics, biotechnology and nanotechnology, with applications in probing, detection, assaying and drug delivery. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.
ELEC_V 481-101	ELEC_V	481		101	Economic Analysis of Engineering Projects	W1	Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, taxation and uncertainty; cost estimation and budgeting; financial analysis of engineering operations. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ELEC_V 481-201	ELEC_V	481		201	Economic Analysis of Engineering Projects	W2	Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, taxation and uncertainty; cost estimation and budgeting; financial analysis of engineering operations. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ELEC_V 491-C_001	ELEC_V	491	C	C_001	Electrical Engineering Capstone Design Project	W1-2	Design, analysis, and implementation of solutions in response to a real-world electrical engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: ELEC 391.	In Person Learning	Arranged	Arranged
ELEC_V 491-C_201	ELEC_V	491	C	C_201	Electrical Engineering Capstone Design Project	W2	Design, analysis, and implementation of solutions in response to a real-world electrical engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: ELEC 391.	In Person Learning	Arranged	Arranged
ELEC_V 491-C_A10	ELEC_V	491	C	C_A10	Electrical Engineering Capstone Design Project	W1-2	Design, analysis, and implementation of solutions in response to a real-world electrical engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: ELEC 391.	In Person Learning	Arranged	Arranged
ELEC_V 491-C_CG0	ELEC_V	491	C	C_CG0	Electrical Engineering Capstone Design Project	W1-2	Design, analysis, and implementation of solutions in response to a real-world electrical engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0; 2-6-0] Prerequisite: ELEC 391.	In Person Learning	Arranged	Arranged





ELEC_V 499-A_001	ELEC_V	499	A	A_001	Undergraduate Thesis	W1-2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ELEC_V 499-A_101	ELEC_V	499	A	A_101	Undergraduate Thesis	W1	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ELEC_V 499-A_201	ELEC_V	499	A	A_201	Undergraduate Thesis	W2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ELEC_V 499-B_001	ELEC_V	499	B	B_001	Undergraduate Thesis	W1-2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ELEC_V 499-B_102	ELEC_V	499	B	B_102	Undergraduate Thesis	W1	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ELEC_V 499-B_202	ELEC_V	499	B	B_202	Undergraduate Thesis	W2	Project in electrical engineering or computer engineering involving design, experimental and/or computer simulation work as selected from topics supplied by faculty members. An individual project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ELEC_V 501-201	ELEC_V	501		201	Analog Integrated Circuit Design	W2	Credit will only be given for one of ELEC 501 or EECE 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ELEC_V 502-201	ELEC_V	502		201	Advanced Topics in Very-Large-Scale Integration (VLSI) Design	W2	Credit will only be given for one of ELEC 502 or EECE 579. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ELEC_V 505-101	ELEC_V	505		101	Integrated Circuits for Phase-Locked Loops	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ELEC_V 506-101	ELEC_V	506		101	CMOS Design for Photonics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ELEC_V 507-101	ELEC_V	507		101	Mixed-Signal and RF Integrated Circuits and Systems Test	W1	Credit will only be given for one of ELEC 507 or EECE 595. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu Fri	3:30 p.m. - 5:00 p.m.
ELEC_V 523-101	ELEC_V	523		101	Medical Imaging	W1	Credit will only be given for one of ELEC 523 or EECE 544. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ELEC_V 524-101	ELEC_V	524		101	Advanced Biophotonics	W1	Credit will only be given for one of ELEC 524 or EECE 535. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ELEC_V 542-201	ELEC_V	542		201	Computational Quantum Methods for the Nanoscale	W2	Credit will only be given for one of ELEC 542 or EECE 531. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ELEC_V 543-201	ELEC_V	543		201	Green Nanoelectronic Devices	W2	Credit will only be given for one of ELEC 543 or EECE 534. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
ELEC_V 544-101	ELEC_V	544		101	Advanced Microsystems Design	W1	Credit will only be given for one of ELEC 544 or EECE 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ELEC_V 544-201	ELEC_V	544		201	Advanced Microsystems Design	W2	Credit will only be given for one of ELEC 544 or EECE 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ELEC_V 546-101	ELEC_V	546		101	Micro and Nano Fabrication Technologies	W1	Credit will only be given for one of ELEC 546 or EECE 573. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged











ENGL_V 111-L10	ENGL_V	111	L10	Approaches to Language and Communication	W1	Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
ENGL_V 111-L20	ENGL_V	111	L20	Approaches to Language and Communication	W2	Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 111-L21	ENGL_V	111	L21	Approaches to Language and Communication	W2	Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 111-L22	ENGL_V	111	L22	Approaches to Language and Communication	W2	Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 111-L23	ENGL_V	111	L23	Approaches to Language and Communication	W2	Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 140-001	ENGL_V	140	001	Challenging Language Myths	W1	Critical consideration of a broad range of commonly held beliefs about language and its relation to the brain and cognition, learning, society, change and evolution. Note: This is an elective course that does not fulfill writing requirements in any faculty or the literature requirement in the Faculty of Arts. Credit will be granted for only one of ENGL 140 or LING 140. This course is not eligible for Credit/D/Fail grading. Equivalency: LING140	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 200-001	ENGL_V	200	001	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
ENGL_V 200-002	ENGL_V	200	002	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
ENGL_V 200-003	ENGL_V	200	003	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
ENGL_V 200-004	ENGL_V	200	004	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
ENGL_V 200-005	ENGL_V	200	005	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Fri	1:00 p.m. - 2:00 p.m.
ENGL_V 200-006	ENGL_V	200	006	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Fri	1:00 p.m. - 2:00 p.m.
ENGL_V 200-007	ENGL_V	200	007	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Fri	1:00 p.m. - 2:00 p.m.
ENGL_V 200-008	ENGL_V	200	008	Principles of Literary Studies	W1	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
ENGL_V 200-009	ENGL_V	200	009	Principles of Literary Studies	W2	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
ENGL_V 200-010	ENGL_V	200	010	Principles of Literary Studies	W2	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
ENGL_V 200-011	ENGL_V	200	011	Principles of Literary Studies	W2	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
ENGL_V 200-012	ENGL_V	200	012	Principles of Literary Studies	W2	A collaboratively-taught exploration and application of key scholarly, theoretical and critical approaches informing the study of literatures in English. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 210-001	ENGL_V	210	001	An Introduction to English Honours	W1-2	Comprehensive overview of key periods, genres, and methods in English studies for students entering the English Honours program. Restricted to students in Honours programs.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ENGL_V 220-001	ENGL_V	220	001	Literature in English to the 18th Century	W1	A survey of prose, poetry and drama to the 18th Century. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 220-002	ENGL_V	220	002	Literature in English to the 18th Century	W2	A survey of prose, poetry and drama to the 18th Century. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 221-003	ENGL_V	221	003	Literature in Britain: the 18th Century to the Present	W1	A survey of poetry, drama, fiction and non-fiction prose from the 18th century to the present. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

ENGL_V 222-001	ENGL_V	222	001	Literature in Canada	W1	The major types of Canadian writing: fiction, poetry, non-fictional prose, and drama. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ENGL_V 222-002	ENGL_V	222	002	Literature in Canada	W2	The major types of Canadian writing: fiction, poetry, non-fictional prose, and drama. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 223-002	ENGL_V	223	002	Literature in the United States	W2	The major types of American writing: fiction, poetry, drama and non-fictional prose. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 224-001	ENGL_V	224	001	World Literature in English	W1	English literature produced outside Britain and North America. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ENGL_V 225-001	ENGL_V	225	001	Poetry	W1	Principles, methods, and resources for reading poetry. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ENGL_V 225-002	ENGL_V	225	002	Poetry	W2	Principles, methods, and resources for reading poetry. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ENGL_V 227-002	ENGL_V	227	002	Prose Fiction	W2	Principles, methods and resources for reading the novel and the short story. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 228-A_001	ENGL_V	228	A	A_001	W2	Current research interests in English studies. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ENGL_V 229-A_001	ENGL_V	229	A	A_001	W1	Consult Department's website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ENGL_V 231-001	ENGL_V	231	001	Introduction to Indigenous Literatures	W2	A study of cultural expression in contemporary indigenous contexts. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 231-002	ENGL_V	231	002	Introduction to Indigenous Literatures	W1	A study of cultural expression in contemporary indigenous contexts. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ENGL_V 232-001	ENGL_V	232	001	Approaches to Media Studies	W2	Approaches to the study of media: philosophical; technological; cultural; theoretical. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ENGL_V 241-001	ENGL_V	241	001	Shakespeare Now	W2	Introductory topics in Shakespeare studies that seek to identify relationships between Shakespeare's work and present-day issues and concerns. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ENGL_V 242-001	ENGL_V	242	001	Introduction to Children's and Young Adult Literature	W1	History, genres, and scholarly study of writing for children and adolescents. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 242-002	ENGL_V	242	002	Introduction to Children's and Young Adult Literature	W2	History, genres, and scholarly study of writing for children and adolescents. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 243-001	ENGL_V	243	001	Speculative Fiction	W1	Genres and sub-genres of speculative fiction, such as science fiction and fantasy, alternate history, dystopian and post-apocalyptic narrative, and slipstream, as well as the intersections among them. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 243-002	ENGL_V	243	002	Speculative Fiction	W2	Genres and sub-genres of speculative fiction, such as science fiction and fantasy, alternate history, dystopian and post-apocalyptic narrative, and slipstream, as well as the intersections among them. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 244-001	ENGL_V	244	001	Environment and Literature	W1	Literary, critical, and/or pop-culture texts about environmentalism and ecology. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 245-001	ENGL_V	245	001	Comics and Graphic Media	W1	Introduction to the critical study of comics and graphic media. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 245-002	ENGL_V	245	002	Comics and Graphic Media	W2	Introduction to the critical study of comics and graphic media. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 246-001	ENGL_V	246	001	Literature and Film	W1	Approaches to the study of the relationships between literature and film. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ENGL_V 247-001	ENGL_V	247	001	Television Studies	W1	Introduction to methods and practices of television studies, with emphasis on the use of literary approaches to televisual narrative. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 248-001	ENGL_V	248	001	Mystery and Detective Fiction	W2	Thematic and generic approaches to mystery, crime, and detective writing in English, primarily short-fiction and novels; may also include comics, radio, film, and television. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.

ENGL_V 249-002	ENGL_V	249	002	Literary Nonfiction	W1	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ENGL_V 249-004	ENGL_V	249	004	Literary Nonfiction	W1	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ENGL_V 249-021	ENGL_V	249	021	Literary Nonfiction	W2	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-035	ENGL_V	249	035	Literary Nonfiction	W2	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-039	ENGL_V	249	039	Literary Nonfiction	W1	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-040	ENGL_V	249	040	Literary Nonfiction	W2	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-041	ENGL_V	249	041	Literary Nonfiction	W1	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-042	ENGL_V	249	042	Literary Nonfiction	W2	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-043	ENGL_V	249	043	Literary Nonfiction	W1	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-044	ENGL_V	249	044	Literary Nonfiction	W1	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-045	ENGL_V	249	045	Literary Nonfiction	W1	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 249-046	ENGL_V	249	046	Literary Nonfiction	W2	Principles, methods and resources for reading literary non-fiction, including personal essays, memoir, and literary journalism. May also include nature, travel or food writing or graphic memoir. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 300-001	ENGL_V	300	001	Introduction to Critical Theory	W1	Analysis of theoretical methods and critical approaches practiced in the discipline of English studies. Required of all students in the English Honours Literature and Language & Literature programs. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ENGL_V 301-001	ENGL_V	301	001	Technical Writing	W1	Study of the principles of written communication in general business and professional activities, and practice in the preparation of abstracts, proposals, reports, and correspondence. Not for credit towards the English Major or Minor. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Hybrid Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ENGL_V 309-001	ENGL_V	309	001	Rhetoric of Science, Technology, and Medicine	W2	Exploration of the persuasive dimension of discourse practices in science, technology, and medicine. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 310-001	ENGL_V	310	001	History and Theory of Rhetoric: Classical Rhetoric	W1	Introduction to classical rhetoric with attention to the analysis of present-day texts. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ENGL_V 312-A_001	ENGL_V	312	A	A_001	W1	Introduction to theories of language and culture, and to techniques for analysing discourses in their social contexts. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 318-001	ENGL_V	318	001	History of the English Language: Early History	W1	Principles of language change and language typology. The development of the English language from its Indo-European origins to the end of the Anglo-Saxon period. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 319-001	ENGL_V	319	001	History of the English Language: Later History	W2	Principles of language change. The development and spread of the English language from the Norman Conquest to the Modern English period. Prerequisite: Knowledge of the International Phonetic Alphabet (via ENGL 318, ENGL 330 or the equivalent). Recommended: ENGL 318.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ENGL_V 321-A_99A	ENGL_V	321	A	A_99A	W1	Descriptive approaches to the English language. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 322-A_99C	ENGL_V	322	A	A_99C	W2	Application of linguistic theory and method to stylistic analysis. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 326-A_001	ENGL_V	326	A	A_001	W1	Topics in the history or structure of the English language. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.

ENGL_V 327-A_001	ENGL_V	327	A	A_001	Cognitive Approaches to the Study of Meaning	W1	Interpretation of linguistic usages through cognitive concepts. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 328-A_001	ENGL_V	328	A	A_001	Metaphor, Language and Thought	W2	Exploration of the concepts underlying figurative language (in vocabulary as well as in grammar), using data from both colloquial and literary language. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ENGL_V 330-002	ENGL_V	330		002	The Structure of Modern English: Sounds and Words	W2	An introduction to phonology, morphology, and lexical semantics. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
ENGL_V 331-99C	ENGL_V	331		99C	The Structure of Modern English: Sentences and Their Uses	W2	An introduction to syntax, pragmatics, and sentence semantics. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Thu	3:00 p.m. - 6:00 p.m.
ENGL_V 332-001	ENGL_V	332		001	Approaches to Media History	W2	History of media and technological change; literary, rhetorical, or linguistic methods of inquiry. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 332-99A	ENGL_V	332		99A	Approaches to Media History	W1	History of media and technological change; literary, rhetorical, or linguistic methods of inquiry. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 332-99C	ENGL_V	332		99C	Approaches to Media History	W2	History of media and technological change; literary, rhetorical, or linguistic methods of inquiry. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 333-A_001	ENGL_V	333	A	A_001	History of the Book	W1	Survey of development of text technologies (such as manuscripts, printed books, new media forms), through historical, cultural, and theoretical frameworks. Consult department website for current year's offerings. Credit granted for up to 6 credits of ENGL 333 and 419. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ENGL_V 342-001	ENGL_V	342		001	Introduction to Old English	W1	Old English vocabulary, grammar, and translation, with readings in poetry and prose. Credit will be granted for only one of ENGL 340 and ENGL 342. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 343-A_001	ENGL_V	343	A	A_001	Anglo-Saxon and Early Medieval Literature	W2	Readings in the literature of early medieval (pre-1200) Britain and its neighbours, in modern English translation. May encompass multiple genres and contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 344-A_001	ENGL_V	344	A	A_001	Middle English Literature	W2	May encompass multiple genres and contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 344-A_99A	ENGL_V	344	A	A_99A	Middle English Literature	W1	May encompass multiple genres and contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 346-A_001	ENGL_V	346	A	A_001	Chaucer	W1	A detailed study of Chaucer's major works. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 347-A_001	ENGL_V	347	A	A_001	Renaissance Literature	W2	Literature of the sixteenth and early seventeenth-centuries. May encompass multiple genres and contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 348-A_001	ENGL_V	348	A	A_001	Shakespeare	W1	A detailed study of Shakespeare's works. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 348-A_002	ENGL_V	348	A	A_002	Shakespeare	W2	A detailed study of Shakespeare's works. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 348-A_99C	ENGL_V	348	A	A_99C	Shakespeare	W2	A detailed study of Shakespeare's works. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 349-A_001	ENGL_V	349	A	A_001	Seventeenth-Century Literature	W1	Literature of Stuart and Civil War Britain. May encompass multiple genres and contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ENGL_V 350-A_001	ENGL_V	350	A	A_001	Milton	W1	A detailed study of Milton's works. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 350 and/or 354. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 351-A_001	ENGL_V	351	A	A_001	Restoration and Eighteenth-Century Literature	W1	British and Global literature from the Restoration of the Monarchy to the Enlightenment with a focus on intellectual and political contexts. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 351 and/or 357. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 353-A_001	ENGL_V	353	A	A_001	Eighteenth-Century Literature	W2	Intellectual developments and literary experiments, in British and Global contexts. May encompass multiple genres and contexts. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 353 and/or 358. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ENGL_V 355-A_001	ENGL_V	355	A	A_001	Romantic Period Literature	W1	British and Global literature, 1780-1830, from the period of the French Revolution to the Reform Act and the Abolition of Slavery in the British Empire. May encompass multiple genres and contexts. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 355 and/or 359. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

ENGL_V 355-A_002	ENGL_V	355	A	A_002	Romantic Period Literature	W2	British and Global literature, 1780-1830, from the period of the French Revolution to the Reform Act and the Abolition of Slavery in the British Empire. May encompass multiple genres and contexts. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 355 and/or 359. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ENGL_V 360-A_001	ENGL_V	360	A	A_001	Early Canadian Writing	W2	Pre-Confederation colonial literature from its emergence until the end of World War 1. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ENGL_V 362-A_001	ENGL_V	362	A	A_001	Victorian Period Literature	W1	British and Global literature, 1832-1901, with an emphasis on genre or special topics. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 362-A_002	ENGL_V	362	A	A_002	Victorian Period Literature	W2	British and Global literature, 1832-1901, with an emphasis on genre or special topics. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 364-A_001	ENGL_V	364	A	A_001	Nineteenth-Century Literature	W1	British and Global literature from the nineteenth century and its intellectual and cultural contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ENGL_V 365-A_002	ENGL_V	365	A	A_002	Modernist Literature	W2	Literary experimentation in 19th to 20th century movements known as modernism. Includes interdisciplinary approaches to literary, performance, and media arts, and intellectual and social histories of the period. May encompass multiple genres and contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ENGL_V 365-A_99A	ENGL_V	365	A	A_99A	Modernist Literature	W1	Literary experimentation in 19th to 20th century movements known as modernism. Includes interdisciplinary approaches to literary, performance, and media arts, and intellectual and social histories of the period. May encompass multiple genres and contexts. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 366-A_001	ENGL_V	366	A	A_001	Twentieth-Century Literature	W2	Fiction, poetry and/or drama written between 1900 and 1999. May encompass multiple genres and contexts. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 366 and/or 464. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 368-A_001	ENGL_V	368	A	A_001	U.S. Literature from 1890	W1	Literature and other texts in diverse U.S. cultural contexts and/or from a range of eras. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 368 and/or 472. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ENGL_V 370-A_001	ENGL_V	370	A	A_001	Literatures and Cultures of Africa and/or the Middle East	W2	Literary and cultural works from Africa; some sections include Africa and the Middle East. Multiple perspectives on local, national, and global issues including colonialism, migration, transnationalism, education, art and politics. May include fiction, poetry, drama, digital media, and other forms. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended. Credit will be granted for only one of ENGL 370 or AFST 370. Equivalency: AFST 370	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 371-A_001	ENGL_V	371	A	A_001	Asian Canadian and/or Asian Transnational Studies	W1	An interdisciplinary engagement with literature in the context of Asian migrations in Canadian and other transnational locations. Consult Department for current year's offerings. Credit will be granted for up to 6 credits of ENGL 371 and/or 480. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ENGL_V 372-A_001	ENGL_V	372	A	A_001	Canadian Literature	W1	Writing and culture in Canada with texts taught in context. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 372 and/or 470. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ENGL_V 372-A_99C	ENGL_V	372	A	A_99C	Canadian Literature	W2	Writing and culture in Canada with texts taught in context. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 372 and/or 470. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 373-001	ENGL_V	373		001	Indigenous Literature	W1	Indigenous writing and cultural expression in national and/or international contexts. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 373 and/or 476. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
ENGL_V 373-002	ENGL_V	373		002	Indigenous Literature	W2	Indigenous writing and cultural expression in national and/or international contexts. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 373 and/or 476. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 374-A_001	ENGL_V	374	A	A_001	Post-colonial Literature	W2	World literature in English focusing on decolonization and anti-colonial thought. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 374 and/or 478. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 375-A_001	ENGL_V	375	A	A_001	Global South Connections	W1	Literary and cultural networks relating to societies in the Global South; may address areas such as colonization, decolonization, nationalism, social movements, forced and voluntary migrations of peoples, cultural hybridity, translation, and globalization. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ENGL_V 377-A_002	ENGL_V	377	A	A_002	World Literature and Social Movements	W2	Transnational and world literature and art practices that reflect on the conceptual, linguistic and visual aspects of social movements, addressing histories of colonialism, transnational feminist literature and art practices, histories of protest and cultures of resistance. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ENGL_V 377-A_99A	ENGL_V	377	A	A_99A	World Literature and Social Movements	W1	Transnational and world literature and art practices that reflect on the conceptual, linguistic and visual aspects of social movements, addressing histories of colonialism, transnational feminist literature and art practices, histories of protest and cultures of resistance. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged

ENGL_V 378-A_001	ENGL_V	378	A	A_001	Contemporary Literature	W2	A variety of genres organized by cultural movements, critical issues, theoretical approaches, and/or geopolitical regions. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 378 and/or 474. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
ENGL_V 379-A_001	ENGL_V	379	A	A_001	Migrations, Movements, and Transnational Networks in Literary and Cultural Production	W1	Writing related to transnationality and migration; forced and voluntary movements of people, denationalization or citizenship, diasporic and differential legal identities, cultural flows, borderlands and contact zones, new cosmopolitanisms, creoles and translations. Consult department website for current year's offerings. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Arranged	Arranged
ENGL_V 382-A_001	ENGL_V	382	A	A_001	Theory: Anti-/De-/Post-Colonialization	W2	Theoretical work concerned with confronting, resisting and overcoming various forms of colonialism and globalization. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENGL_V 384-A_001	ENGL_V	384	A	A_001	Theory: Space and Displacement	W1	Critical theories of space and movement, place and displacement and how these theories reflect on cultural performances, subjectivity and social environment. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ENGL_V 387-A_001	ENGL_V	387	A	A_001	Theory: Bodies	W1	Theories of corporeality and embodied thought. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENGL_V 392-A_002	ENGL_V	392	A	A_002	Children's Literature	W2	Genres and texts written for and appropriated by young readers. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 392 and/or 468. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ENGL_V 392-A_99C	ENGL_V	392	A	A_99C	Children's Literature	W2	Genres and texts written for and appropriated by young readers. Consult department website for current year's offerings. Credit will be granted for up to 6 credits of ENGL 392 and/or 468. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	Online Learning	Arranged	Arranged
ENGL_V 393-A_001	ENGL_V	393	A	A_001	Ecocriticism	W1	Ecocriticism and the environmental humanities encompassing more specific methodologies, such as queer ecology, ecofeminism, postcolonial, decolonizing, and transnational environmentalisms, environmental art. For ENGL courses at the 200- or 300- level, prior completion of at least one 100- level ENGL course is recommended.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ENGL_V 489-001	ENGL_V	489		001	Language Majors Seminar	W1	Required of all Language Majors. Restricted to fourth-year English Honours and Majors in Language and Literature. See department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
ENGL_V 489-002	ENGL_V	489		002	Language Majors Seminar	W2	Required of all Language Majors. Restricted to fourth-year English Honours and Majors in Language and Literature. See department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
ENGL_V 490-001	ENGL_V	490		001	Literature Majors Seminar	W1	Required of all Literature Majors. Restricted to fourth-year English Majors in Literature and Language and Literature. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
ENGL_V 490-002	ENGL_V	490		002	Literature Majors Seminar	W1	Required of all Literature Majors. Restricted to fourth-year English Majors in Literature and Language and Literature. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
ENGL_V 490-003	ENGL_V	490		003	Literature Majors Seminar	W1	Required of all Literature Majors. Restricted to fourth-year English Majors in Literature and Language and Literature. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
ENGL_V 490-004	ENGL_V	490		004	Literature Majors Seminar	W2	Required of all Literature Majors. Restricted to fourth-year English Majors in Literature and Language and Literature. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
ENGL_V 490-005	ENGL_V	490		005	Literature Majors Seminar	W2	Required of all Literature Majors. Restricted to fourth-year English Majors in Literature and Language and Literature. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
ENGL_V 490-006	ENGL_V	490		006	Literature Majors Seminar	W2	Required of all Literature Majors. Restricted to fourth-year English Majors in Literature and Language and Literature. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
ENGL_V 490-007	ENGL_V	490		007	Literature Majors Seminar	W2	Required of all Literature Majors. Restricted to fourth-year English Majors in Literature and Language and Literature. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
ENGL_V 491-G_001	ENGL_V	491	G	G_001	Senior Honours Seminar	W1	Required of all Honours Students. Restricted to English Honours students in third-year or higher. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
ENGL_V 491-H_002	ENGL_V	491	H	H_002	Senior Honours Seminar	W1	Required of all Honours Students. Restricted to English Honours students in third-year or higher. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
ENGL_V 491-J_003	ENGL_V	491	J	J_003	Senior Honours Seminar	W1	Required of all Honours Students. Restricted to English Honours students in third-year or higher. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
ENGL_V 491-K_004	ENGL_V	491	K	K_004	Senior Honours Seminar	W2	Required of all Honours Students. Restricted to English Honours students in third-year or higher. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
ENGL_V 491-L_005	ENGL_V	491	L	L_005	Senior Honours Seminar	W2	Required of all Honours Students. Restricted to English Honours students in third-year or higher. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.

ENGL_V 499-001	ENGL_V	499	001	Honours Essay	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 8:30 a.m.
ENGL_V 499-002	ENGL_V	499	002	Honours Essay	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 9:00 a.m.
ENGL_V 500-B_002	ENGL_V	500	B_002	Research in English Studies	W1	Required of all graduate students in the M.A. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:30 p.m. - 2:30 p.m.
ENGL_V 500-C_001	ENGL_V	500	C_001	Research in English Studies	W1	Required of all graduate students in the M.A. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:30 p.m. - 2:30 p.m.
ENGL_V 501-A_001	ENGL_V	501	A_001	Studies in Bibliography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
ENGL_V 502-A_001	ENGL_V	502	A_001	Studies in Criticism	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
ENGL_V 502-B_002	ENGL_V	502	B_002	Studies in Criticism	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 3:00 p.m.
ENGL_V 503-A_001	ENGL_V	503	A_001	Studies in Prose	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
ENGL_V 507-A_001	ENGL_V	507	A_001	Studies in English Historical Linguistics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ENGL_V 509-A_001	ENGL_V	509	A_001	Studies in Rhetoric	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
ENGL_V 509-B_002	ENGL_V	509	B_002	Studies in Rhetoric	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 1:00 p.m.
ENGL_V 514-A_001	ENGL_V	514	A_001	Studies in the Renaissance	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
ENGL_V 525-A_001	ENGL_V	525	A_001	Studies in the Eighteenth Century	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ENGL_V 535-A_001	ENGL_V	535	A_001	Studies in the Victorian Period	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:30 p.m. - 3:30 p.m.
ENGL_V 539-A_001	ENGL_V	539	A_001	Studies in the Twentieth Century	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
ENGL_V 539-B_002	ENGL_V	539	B_002	Studies in the Twentieth Century	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
ENGL_V 541-A_001	ENGL_V	541	A_001	Studies in American Literature Since 1890	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
ENGL_V 545-A_001	ENGL_V	545	A_001	Studies in Canadian Literature	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 1:00 p.m.
ENGL_V 546-A_001	ENGL_V	546	A_001	Studies in Commonwealth/Post-colonial Literatures	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:30 p.m. - 6:30 p.m.
ENGL_V 547-A_001	ENGL_V	547	A_001	Directed Reading	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ENGL_V 547-B_002	ENGL_V	547	B_002	Directed Reading	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ENGL_V 549-A_001	ENGL_V	549	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ENGL_V 549-A_002	ENGL_V	549	A_002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

ENGL_V 549-A_003	ENGL_V	549	A	A_003	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ENGL_V 551-A_001	ENGL_V	551	A	A_001	Studies in Literary Movements	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 1:00 p.m.
ENGL_V 553-A_001	ENGL_V	553	A	A_001	Studies in Literary Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
ENGL_V 553-B_002	ENGL_V	553	B	B_002	Studies in Literary Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
ENGL_V 553-C_003	ENGL_V	553	C	C_003	Studies in Literary Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
ENGL_V 555-A_001	ENGL_V	555	A	A_001	Studies in Literature and the Other Arts	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:30 p.m. - 4:30 p.m.
ENGL_V 561-A_001	ENGL_V	561	A	A_001	Topics in Science and Technology Studies	W1	Advanced seminar on a theme or topic of interest to both STS and English. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ENGL_V 565-A_001	ENGL_V	565	A	A_001	Studies in Environmental Humanities	W2	Advanced seminar on arts and humanities research related to ecology and environmentalism. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:30 p.m. - 5:30 p.m.
ENGL_V 649-001	ENGL_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
ENGL_V 649-002	ENGL_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
ENGL_V 649-003	ENGL_V	649		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
ENPH_V 259-101	ENPH_V	259		101	Experimental Techniques	W1	Basic experimental techniques in acquisition, analysis, and presentation and communication of data and technical results. [2-3-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150 and either (a) all of PHYS 108, PHYS 109 or (b) one of PHYS 102, PHYS 153 or (c) SCIE 001 or (d) all of PHYS 157, PHYS 158, PHYS 159 or (e) all of PHYS 118, PHYS 119 or (f) all of PHYS 108, PHYS 119.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
ENPH_V 259-L1A	ENPH_V	259		L1A	Experimental Techniques	W1	Basic experimental techniques in acquisition, analysis, and presentation and communication of data and technical results. [2-3-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150 and either (a) all of PHYS 108, PHYS 109 or (b) one of PHYS 102, PHYS 153 or (c) SCIE 001 or (d) all of PHYS 157, PHYS 158, PHYS 159 or (e) all of PHYS 118, PHYS 119 or (f) all of PHYS 108, PHYS 119.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
ENPH_V 259-L1B	ENPH_V	259		L1B	Experimental Techniques	W1	Basic experimental techniques in acquisition, analysis, and presentation and communication of data and technical results. [2-3-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150 and either (a) all of PHYS 108, PHYS 109 or (b) one of PHYS 102, PHYS 153 or (c) SCIE 001 or (d) all of PHYS 157, PHYS 158, PHYS 159 or (e) all of PHYS 118, PHYS 119 or (f) all of PHYS 108, PHYS 119.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ENPH_V 259-T1A	ENPH_V	259		T1A	Experimental Techniques	W1	Basic experimental techniques in acquisition, analysis, and presentation and communication of data and technical results. [2-3-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150 and either (a) all of PHYS 108, PHYS 109 or (b) one of PHYS 102, PHYS 153 or (c) SCIE 001 or (d) all of PHYS 157, PHYS 158, PHYS 159 or (e) all of PHYS 118, PHYS 119 or (f) all of PHYS 108, PHYS 119.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
ENPH_V 352-L1A	ENPH_V	352		L1A	Laboratory Techniques in Physics	W1	Some of the experiments will be based on the lecture material for PHYS 301. Other techniques and subjects will also be covered. [0-3-0] Corequisite: PHYS 301.	In Person Learning	Tue	3:30 p.m. - 6:30 p.m.
ENPH_V 352-L1B	ENPH_V	352		L1B	Laboratory Techniques in Physics	W1	Some of the experiments will be based on the lecture material for PHYS 301. Other techniques and subjects will also be covered. [0-3-0] Corequisite: PHYS 301.	In Person Learning	Thu	3:30 p.m. - 6:30 p.m.
ENPH_V 352-L2C	ENPH_V	352		L2C	Laboratory Techniques in Physics	W2	Some of the experiments will be based on the lecture material for PHYS 301. Other techniques and subjects will also be covered. [0-3-0] Corequisite: PHYS 301.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
ENPH_V 352-L2D	ENPH_V	352		L2D	Laboratory Techniques in Physics	W2	Some of the experiments will be based on the lecture material for PHYS 301. Other techniques and subjects will also be covered. [0-3-0] Corequisite: PHYS 301.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
ENPH_V 353-101	ENPH_V	353		101	Engineering Physics Project I	W1	Engineering project planning, execution and reporting. The course involves carrying out an open-ended Engineering project to meet specific performance metrics on an industry relevant topic selected by instructors. Reporting on progress is both oral and written. This course is not eligible for Credit/D/Fail grading. [0-6-1] Prerequisite: All of ENPH 253, CPEN 221.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
ENPH_V 353-201	ENPH_V	353		201	Engineering Physics Project I	W2	Engineering project planning, execution and reporting. The course involves carrying out an open-ended Engineering project to meet specific performance metrics on an industry relevant topic selected by instructors. Reporting on progress is both oral and written. This course is not eligible for Credit/D/Fail grading. [0-6-1] Prerequisite: All of ENPH 253, CPEN 221.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.

ENPH_V 353-L1A	ENPH_V	353	L1A	Engineering Physics Project I	W1	Engineering project planning, execution and reporting. The course involves carrying out an open-ended Engineering project to meet specific performance metrics on an industry relevant topic selected by instructors. Reporting on progress is both oral and written. This course is not eligible for Credit/D/Fail grading. [0-6-1] Prerequisite: All of ENPH 253, CPEN 221.	In Person Learning	Wed	3:00 p.m. - 8:00 p.m.
ENPH_V 353-L2A	ENPH_V	353	L2A	Engineering Physics Project I	W2	Engineering project planning, execution and reporting. The course involves carrying out an open-ended Engineering project to meet specific performance metrics on an industry relevant topic selected by instructors. Reporting on progress is both oral and written. This course is not eligible for Credit/D/Fail grading. [0-6-1] Prerequisite: All of ENPH 253, CPEN 221.	In Person Learning	Thu	10:00 a.m. - 3:00 p.m.
ENPH_V 459-001	ENPH_V	459	001	Engineering Physics Project II	W1-2	Project planning, management and reporting. This course involves writing a project proposal, carrying out an open-ended Engineering project, and reporting the results both orally and in writing. This course is not eligible for Credit/D/Fail grading. [1-3-0;0-6-1] Prerequisite: ENPH 253.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
ENPH_V 459-DNU_001	ENPH_V	459	DNU_001	Engineering Physics Project II	W1-2	Project planning, management and reporting. This course involves writing a project proposal, carrying out an open-ended Engineering project, and reporting the results both orally and in writing. This course is not eligible for Credit/D/Fail grading. [1-3-0;0-6-1] Prerequisite: ENPH 253.	In Person Learning	Arranged	Arranged
ENPH_V 459-L2A	ENPH_V	459	L2A	Engineering Physics Project II	W1-2	Project planning, management and reporting. This course involves writing a project proposal, carrying out an open-ended Engineering project, and reporting the results both orally and in writing. This course is not eligible for Credit/D/Fail grading. [1-3-0;0-6-1] Prerequisite: ENPH 253.	In Person Learning	Arranged	Arranged
ENPH_V 479-101	ENPH_V	479	101	Engineering Physics Project III	W1-2	Projects designed to give students research development and design experience. Projects are provided by research faculty in Science and Engineering and from local industry. This course is not eligible for Credit/D/Fail grading. [1-5-1;0-4-0] Prerequisite: ENPH 459.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
ENPH_V 479-DNU_101	ENPH_V	479	DNU_101	Engineering Physics Project III	W2	Projects designed to give students research development and design experience. Projects are provided by research faculty in Science and Engineering and from local industry. This course is not eligible for Credit/D/Fail grading. [1-5-1;0-4-0] Prerequisite: ENPH 459.	In Person Learning	Arranged	Arranged
ENPH_V 479-L1A	ENPH_V	479	L1A	Engineering Physics Project III	W1-2	Projects designed to give students research development and design experience. Projects are provided by research faculty in Science and Engineering and from local industry. This course is not eligible for Credit/D/Fail grading. [1-5-1;0-4-0] Prerequisite: ENPH 459.	In Person Learning	Arranged	Arranged
ENPH_V 479-T1A	ENPH_V	479	T1A	Engineering Physics Project III	W1-2	Projects designed to give students research development and design experience. Projects are provided by research faculty in Science and Engineering and from local industry. This course is not eligible for Credit/D/Fail grading. [1-5-1;0-4-0] Prerequisite: ENPH 459.	In Person Learning	Arranged	Arranged
ENPH_V 480-101	ENPH_V	480	101	Engineering Physics Project IV	W1	An optional course for those students wishing to continue their project work beyond the development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [0-6-0] Prerequisite: ENPH 479.	In Person Learning	Arranged	Arranged
ENPH_V 480-201	ENPH_V	480	201	Engineering Physics Project IV	W2	An optional course for those students wishing to continue their project work beyond the development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [0-6-0] Prerequisite: ENPH 479.	In Person Learning	Arranged	Arranged
ENPH_V 480-L1A	ENPH_V	480	L1A	Engineering Physics Project IV	W1	An optional course for those students wishing to continue their project work beyond the development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [0-6-0] Prerequisite: ENPH 479.	In Person Learning	Arranged	Arranged
ENPH_V 480-L2A	ENPH_V	480	L2A	Engineering Physics Project IV	W2	An optional course for those students wishing to continue their project work beyond the development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [0-6-0] Prerequisite: ENPH 479.	In Person Learning	Arranged	Arranged
ENPH_V 481-101	ENPH_V	481	101	Entrepreneurial Projects I	W1	A project course for students pursuing entrepreneurial training within Engineering Physics, and wishing to further develop projects resulting from ENPH 459. This course is not eligible for Credit/D/Fail grading. [0-5-1] Prerequisite: ENPH 459.	In Person Learning	Arranged	Arranged
ENPH_V 481-201	ENPH_V	481	201	Entrepreneurial Projects I	W2	A project course for students pursuing entrepreneurial training within Engineering Physics, and wishing to further develop projects resulting from ENPH 459. This course is not eligible for Credit/D/Fail grading. [0-5-1] Prerequisite: ENPH 459.	In Person Learning	Arranged	Arranged
ENPH_V 481-L1A	ENPH_V	481	L1A	Entrepreneurial Projects I	W1	A project course for students pursuing entrepreneurial training within Engineering Physics, and wishing to further develop projects resulting from ENPH 459. This course is not eligible for Credit/D/Fail grading. [0-5-1] Prerequisite: ENPH 459.	In Person Learning	Arranged	Arranged
ENPH_V 481-L2A	ENPH_V	481	L2A	Entrepreneurial Projects I	W2	A project course for students pursuing entrepreneurial training within Engineering Physics, and wishing to further develop projects resulting from ENPH 459. This course is not eligible for Credit/D/Fail grading. [0-5-1] Prerequisite: ENPH 459.	In Person Learning	Arranged	Arranged
ENST_V 211-199	ENST_V	211	199	The State of the Earth	W1	The demographic, economic, ecological, and technological factors that underlie current environmental challenges, considering their effects to date and their possible impact in the future. Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing. Equivalency: GEOG 211	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENST_V 211-201	ENST_V	211	201	The State of the Earth	W2	The demographic, economic, ecological, and technological factors that underlie current environmental challenges, considering their effects to date and their possible impact in the future. Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing. Equivalency: GEOG 211	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENST_V 310-101	ENST_V	310	101	Environment and Sustainability	W1	Concepts of environment, resources and sustainability; the roles of physical and human geography in understanding the interaction of humans and the environment; introduction to management of environment-resource systems. Credit will be granted for only one of ENST 310 or GEOG 310. Equivalency: GEOG310	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
ENST_V 310-201	ENST_V	310	201	Environment and Sustainability	W2	Concepts of environment, resources and sustainability; the roles of physical and human geography in understanding the interaction of humans and the environment; introduction to management of environment-resource systems. Credit will be granted for only one of ENST 310 or GEOG 310. Equivalency: GEOG310	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
ENST_V 311-101	ENST_V	311	101	Urban Environments	W1	The impact of urban development on the natural environment and vice versa. Study of the ecology and metabolism of cities and green urban design, using global and local case studies. Credit will be granted for only one of ENST 311 or GEOG 311. Equivalency: GEOG 311	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

ENST_V 311-201	ENST_V	311	201	Urban Environments	W2	The impact of urban development on the natural environment and vice versa. Study of the ecology and metabolism of cities and green urban design, using global and local case studies. Credit will be granted for only one of ENST 311 or GEOG 311. Equivalency: GEOG 311	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ENST_V 312-101	ENST_V	312	101	Climate Change: Science and Society	W1	Climates over the geological, historical and instrument periods. Theories of climatic change. Monitoring and modelling the climate system. Impacts of change on environmental and socio-economic systems. Credit will be granted for only one of ENST 312 or GEOG 312. Recommended pre-requisites: one of GEOS 102, GEOB 102, GEOS 200, GEOB 200, GEOS 204, GEOB 204, ATSC 201, EOCS 112 and 3rd year standing. Equivalency: GEOG 312	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ENST_V 319-101	ENST_V	319	101	Environmental Impact Assessment	W1	The principles, implementation, and role of environmental impact assessment in environmental management, in Canada and internationally. Credit will be granted for only one of ENST 319 or GEOG 319. Equivalency: GEOG 319	Hybrid Learning	Wed	3:30 p.m. - 5:00 p.m.
ENST_V 351-201	ENST_V	351	201	Urban Environmental Politics	W2	Effects of urbanization and global environmental change on the geographies of cities across the world. Specific focus on urban environmental justice and inequality. Credit will be granted for only one of ENST 351 or GEOG 351. Equivalency: GEOG 351	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
ENVE_V 200-101	ENVE_V	200	101	Environmental Engineering Design and Decision Making	W1	Environmental Engineering design and decision-making, analysis tools and techniques, data illustration and other communication techniques, professional development including ethics and equity. Subject themes include water, air and soil. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Second-year standing in ENVL	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENVE_V 200-T1A	ENVE_V	200	T1A	Environmental Engineering Design and Decision Making	W1	Environmental Engineering design and decision-making, analysis tools and techniques, data illustration and other communication techniques, professional development including ethics and equity. Subject themes include water, air and soil. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Second-year standing in ENVL	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
ENVE_V 201-201	ENVE_V	201	201	Technical Communications for Environmental Engineering	W2	All aspects of technical communication, including report preparation, business correspondence, and oral presentation, applied to environmental engineering specific cases and projects. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: WRDS 150. or equivalent (ENGL 100, 110, 111 or 112) Corequisite: ENVE 203.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
ENVE_V 202-201	ENVE_V	202	201	Environmental Engineering Science	W2	Analysis of integrated environmental systems, quantification of fundamental chemical and biological processes, systems design, evaluation of environmental impact, future trends. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Four of CHEM 154, CIVL 204, CHBE 241.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ENVE_V 202-L2A	ENVE_V	202	L2A	Environmental Engineering Science	W2	Analysis of integrated environmental systems, quantification of fundamental chemical and biological processes, systems design, evaluation of environmental impact, future trends. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Four of CHEM 154, CIVL 204, CHBE 241.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
ENVE_V 203-201	ENVE_V	203	201	Environmental Engineering and Sustainability	W2	Sustainability vocabulary and systems theory relevant to environmental engineering practice, foundational sustainability topics including those relating to urban ecology, industrial ecology/circular economy, and humanitarian engineering, stakeholder analysis, communication, and adaptive change leadership skills [3-0-2] Prerequisite: ENVE 200. or third-year standing in ENVE.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ENVE_V 203-T2A	ENVE_V	203	T2A	Environmental Engineering and Sustainability	W2	Sustainability vocabulary and systems theory relevant to environmental engineering practice, foundational sustainability topics including those relating to urban ecology, industrial ecology/circular economy, and humanitarian engineering, stakeholder analysis, communication, and adaptive change leadership skills [3-0-2] Prerequisite: ENVE 200. or third-year standing in ENVE.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
ENVE_V 203-T2B	ENVE_V	203	T2B	Environmental Engineering and Sustainability	W2	Sustainability vocabulary and systems theory relevant to environmental engineering practice, foundational sustainability topics including those relating to urban ecology, industrial ecology/circular economy, and humanitarian engineering, stakeholder analysis, communication, and adaptive change leadership skills [3-0-2] Prerequisite: ENVE 200. or third-year standing in ENVE.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
ENVE_V 301-201	ENVE_V	301	201	Environmental Engineering Intermediate Design Project	W2	Real-time, fully-integrated, conceptual and detailed design experiences that address an ill-structured, socially and technically complex environmental engineering problem for communities with consideration to the cultural history and needs of the communities. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: Third-year standing in ENVL or third-year standing in ENVE. Corequisite: ENVE 203.	In Person Learning	Thu	8:30 a.m. - 9:30 a.m.
ENVE_V 301-T2A	ENVE_V	301	T2A	Environmental Engineering Intermediate Design Project	W2	Real-time, fully-integrated, conceptual and detailed design experiences that address an ill-structured, socially and technically complex environmental engineering problem for communities with consideration to the cultural history and needs of the communities. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: Third-year standing in ENVL or third-year standing in ENVE. Corequisite: ENVE 203.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
ENVE_V 401-001	ENVE_V	401	001	Environmental Engineering Capstone Project	W1-2	Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: ENVE 301. and Fourth-year standing in ENVL.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
ENVE_V 401-DNU_001	ENVE_V	401	DNU_001	Environmental Engineering Capstone Project	W2	Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: ENVE 301. and Fourth-year standing in ENVL.	In Person Learning	Arranged	Arranged
ENVE_V 401-TOA	ENVE_V	401	TOA	Environmental Engineering Capstone Project	W1-2	Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: ENVE 301. and Fourth-year standing in ENVL.	In Person Learning	Wed Fri	3:00 p.m. - 5:00 p.m.
ENVE_V 401-TOB	ENVE_V	401	TOB	Environmental Engineering Capstone Project	W1-2	Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: ENVE 301. and Fourth-year standing in ENVL.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
ENVR_V 200-101	ENVR_V	200	101	Introduction to Environmental Science	W1	Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. [3-0-0] Prerequisite: Open to all students with second-year, or higher, standing.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ENVR_V 200-201	ENVR_V	200	201	Introduction to Environmental Science	W2	Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. [3-0-0] Prerequisite: Open to all students with second-year, or higher, standing.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.

ENVR_V 200-T01	ENVR_V	200	T01	Introduction to Environmental Science	W1	Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. [3-0-0] Prerequisite: Open to all students with second-year, or higher, standing.	In Person Learning	Arranged	Arranged
ENVR_V 200-T02	ENVR_V	200	T02	Introduction to Environmental Science	W2	Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. [3-0-0] Prerequisite: Open to all students with second-year, or higher, standing.	In Person Learning	Arranged	Arranged
ENVR_V 201-101	ENVR_V	201	101	Climate Action Lab 1	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ENVR_V 201-102	ENVR_V	201	102	Climate Action Lab 1	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ENVR_V 201-L1A	ENVR_V	201	L1A	Climate Action Lab 1	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0]	In Person Learning	Arranged	Arranged
ENVR_V 300-201	ENVR_V	300	201	Introduction to Research in Environmental Science	W2	Environmental research. Students investigate research methodologies and reporting in a range of scientific disciplines and fields. [3-0-0] Prerequisite: Open to all students with third-year, or higher, standing in the Faculty of Science.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ENVR_V 300-L1A	ENVR_V	300	L1A	Introduction to Research in Environmental Science	W1	Environmental research. Students investigate research methodologies and reporting in a range of scientific disciplines and fields. [3-0-0] Prerequisite: Open to all students with third-year, or higher, standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 300-L2A	ENVR_V	300	L2A	Introduction to Research in Environmental Science	W2	Environmental research. Students investigate research methodologies and reporting in a range of scientific disciplines and fields. [3-0-0] Prerequisite: Open to all students with third-year, or higher, standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 301-101	ENVR_V	301	101	Climate Action Lab 2	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: ENVR 201.	In Person Learning	Arranged	Arranged
ENVR_V 301-102	ENVR_V	301	102	Climate Action Lab 2	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: ENVR 201.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ENVR_V 301-L1A	ENVR_V	301	L1A	Climate Action Lab 2	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: ENVR 201.	In Person Learning	Arranged	Arranged
ENVR_V 302-101	ENVR_V	302	101	Climate Action Lab 1 and 2	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: 3rd year standing and approval from the Climate Studies and Action Certificate Program Administrator.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ENVR_V 302-102	ENVR_V	302	102	Climate Action Lab 1 and 2	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: 3rd year standing and approval from the Climate Studies and Action Certificate Program Administrator.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ENVR_V 302-L1A	ENVR_V	302	L1A	Climate Action Lab 1 and 2	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: 3rd year standing and approval from the Climate Studies and Action Certificate Program Administrator.	In Person Learning	Arranged	Arranged
ENVR_V 400-001	ENVR_V	400	001	Community Project in Environmental Science	W1-2	Instructor-guided collaboration between student teams and community partners on community-based environmental science projects. Teams articulate project questions and goals, devise methods, conduct research and communicate results. Credit will be given for only one of ENVR 400 or ENVR 449. [3-0-0; 3-0-0] Prerequisite: ENVR 300.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ENVR_V 400-101	ENVR_V	400	L01	Community Project in Environmental Science	W1-2	Instructor-guided collaboration between student teams and community partners on community-based environmental science projects. Teams articulate project questions and goals, devise methods, conduct research and communicate results. Credit will be given for only one of ENVR 400 or ENVR 449. [3-0-0; 3-0-0] Prerequisite: ENVR 300.	In Person Learning	Arranged	Arranged
ENVR_V 401-101	ENVR_V	401	101	Climate Action Lab 3	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ENVR_V 401-102	ENVR_V	401	102	Climate Action Lab 3	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.	In Person Learning	Arranged	Arranged
ENVR_V 401-103	ENVR_V	401	103	Climate Action Lab 3	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
ENVR_V 401-L1A	ENVR_V	401	L1A	Climate Action Lab 3	W1	Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.	In Person Learning	Arranged	Arranged
ENVR_V 402-201	ENVR_V	402	201	Climate Studies and Action Capstone	W2	Instructor-guided collaboration between student teams and community partners on climate action projects. [3-0-0] Prerequisite: ENVR 401.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
ENVR_V 410-101	ENVR_V	410	101	Energy, Environment, and Society	W1	The role of energy in human societies throughout history and the environmental and social implications of energy use. Coverage of both the science and policy of energy use. Energy supply and demand, energy transitions, analytical tools, impacts, and alternatives. [3-0-0] Prerequisite: Fourth-year standing in B.Sc., B.A.Sc. or related programs.	In Person Learning	Arranged	Arranged

ENVR_V 410-201	ENVR_V	410		201	Energy, Environment, and Society	W2	The role of energy in human societies throughout history and the environmental and social implications of energy use. Coverage of both the science and policy of energy use. Energy supply and demand, energy transitions, analytical tools, impacts, and alternatives. [3-0-0] Prerequisite: Fourth-year standing in B.Sc., B.A.Sc. or related programs.	In Person Learning	Arranged	Arranged
ENVR_V 420-201	ENVR_V	420		201	Ecohydrology of Watersheds and Water Systems	W2	Analysis of water resources from a water-in-ecosystem perspective. Application to natural, managed, and urban systems, considering ecological interactions with hydrological processes. Exploration of biogeochemical processes related to water quality, and human impacts on water resources. [3-0-0] Prerequisite: Third or fourth-year standing in Science, Applied Science, Land and Food Systems, or Forestry.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
ENVR_V 430-101	ENVR_V	430		101	Ecological Dimensions of Sustainability	W1	Current issues. Application to agricultural, energy, and resource systems in terrestrial and aquatic contexts. Analysis of complex problems; incorporation of science into novel interdisciplinary solutions. [3-0-0] Prerequisite: Class standing 3, and either (1) one of ENVR 300, BIOL 230, FRST 201 or (2) other demonstrated ecology background.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
ENVR_V 430-201	ENVR_V	430		201	Ecological Dimensions of Sustainability	W2	Current issues. Application to agricultural, energy, and resource systems in terrestrial and aquatic contexts. Analysis of complex problems; incorporation of science into novel interdisciplinary solutions. [3-0-0] Prerequisite: Class standing 3, and either (1) one of ENVR 300, BIOL 230, FRST 201 or (2) other demonstrated ecology background.	In Person Learning	Arranged	Arranged
ENVR_V 440-201	ENVR_V	440		201	Analytical Methods in Sustainability Science	W2	Sustainability analysis through a series of case studies. Example approaches include cost-benefit analysis, trade-offs analysis, and life-cycle analysis. Active learning in a computer lab using real-world data. [2-2-0] Prerequisite: One of ENVR 200, ASIC 220, SCIE 220, GEOG 211. Third-year standing.	In Person Learning	Wed Fri	2:00 p.m. - 4:00 p.m.
ENVR_V 448-A_101	ENVR_V	448	A	A_101	Directed Studies in Environmental Science	W1	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 448-A_102	ENVR_V	448	A	A_102	Directed Studies in Environmental Science	W1	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 448-A_201	ENVR_V	448	A	A_201	Directed Studies in Environmental Science	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 448-A_202	ENVR_V	448	A	A_202	Directed Studies in Environmental Science	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 448-B_001	ENVR_V	448	B	B_001	Directed Studies in Environmental Science	W1-2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 448-B_201	ENVR_V	448	B	B_201	Directed Studies in Environmental Science	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 448-B_202	ENVR_V	448	B	B_202	Directed Studies in Environmental Science	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
ENVR_V 448-C_001	ENVR_V	448	C	C_001	Directed Studies in Environmental Science	W1	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an ENSC advisor and of the supervising faculty member is required prior to registration. Prerequisite: Third year standing in the Faculty of Science.	In Person Learning	Arranged	Arranged
ENVR_V 449-001	ENVR_V	449		001	Environmental Science HonoursThesis	W1-2	[3-0-0] Prerequisite: [ENVR300] and fourth-year standing in the B.Sc. Environmental Sciences honours program.	In Person Learning	Arranged	Arranged
EOSC_V 110-101	EOSC_V	110		101	The Solid Earth: A Dynamic Planet	W1	Earth's origin, composition, structure, and natural resources. Plate tectonics as the driving force for volcanism, mountain building, and earthquakes. Imaging Earth's interior. Environmental geoscience and sustainability. (Consult the Credit Exclusion list for the Faculty of Science section of the Calendar.) [3-0-0]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
EOSC_V 110-201	EOSC_V	110		201	The Solid Earth: A Dynamic Planet	W2	Earth's origin, composition, structure, and natural resources. Plate tectonics as the driving force for volcanism, mountain building, and earthquakes. Imaging Earth's interior. Environmental geoscience and sustainability. (Consult the Credit Exclusion list for the Faculty of Science section of the Calendar.) [3-0-0]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
EOSC_V 110-V01	EOSC_V	110		V01	The Solid Earth: A Dynamic Planet	W2	Earth's origin, composition, structure, and natural resources. Plate tectonics as the driving force for volcanism, mountain building, and earthquakes. Imaging Earth's interior. Environmental geoscience and sustainability. (Consult the Credit Exclusion list for the Faculty of Science section of the Calendar.) [3-0-0]	In Person Learning	Arranged	Arranged
EOSC_V 111-L1A	EOSC_V	111		L1A	Laboratory Exploration of Planet Earth	W1	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOSC 110, EOSC 112, EOSC 114, EOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
EOSC_V 111-L1B	EOSC_V	111		L1B	Laboratory Exploration of Planet Earth	W1	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOSC 110, EOSC 112, EOSC 114, EOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
EOSC_V 111-L1C	EOSC_V	111		L1C	Laboratory Exploration of Planet Earth	W1	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOSC 110, EOSC 112, EOSC 114, EOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
EOSC_V 111-L1D	EOSC_V	111		L1D	Laboratory Exploration of Planet Earth	W1	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOSC 110, EOSC 112, EOSC 114, EOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Thu	11:00 a.m. - 2:00 p.m.
EOSC_V 111-L1E	EOSC_V	111		L1E	Laboratory Exploration of Planet Earth	W1	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOSC 110, EOSC 112, EOSC 114, EOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Thu	8:00 a.m. - 11:00 a.m.

EOSC_V 111-L2A	EOSC_V	111	L2A	Laboratory Exploration of Planet Earth	W2	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOOSC 110, EOOSC 112, EOOSC 114, EOOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Thu	11:00 a.m. - 2:00 p.m.
EOSC_V 111-L2B	EOSC_V	111	L2B	Laboratory Exploration of Planet Earth	W2	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOOSC 110, EOOSC 112, EOOSC 114, EOOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Tue	8:00 a.m. - 11:00 a.m.
EOSC_V 111-L2C	EOSC_V	111	L2C	Laboratory Exploration of Planet Earth	W2	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOOSC 110, EOOSC 112, EOOSC 114, EOOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
EOSC_V 111-L2D	EOSC_V	111	L2D	Laboratory Exploration of Planet Earth	W2	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOOSC 110, EOOSC 112, EOOSC 114, EOOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
EOSC_V 111-L2E	EOSC_V	111	L2E	Laboratory Exploration of Planet Earth	W2	An examination of the processes that shape and change the planet earth. This laboratory course is an appropriate complement to EOOSC 110, EOOSC 112, EOOSC 114, EOOSC 116 but can also be taken independently. [0-3-0]	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
EOSC_V 112-101	EOSC_V	112	101	The Climate System	W1	Introduction to Earth's climate system: radiation balance, greenhouse effect, atmosphere and ocean circulation, plate tectonics, biosphere interactions, and the carbon cycle. Applications to understand the causes of climate change, from long-term climate evolution to modern human-induced climate change. (Consult the Credit Exclusion list, within the Faculty of Science section in the Calendar.) [3-0-0]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
EOSC_V 112-201	EOSC_V	112	201	The Climate System	W2	Introduction to Earth's climate system: radiation balance, greenhouse effect, atmosphere and ocean circulation, plate tectonics, biosphere interactions, and the carbon cycle. Applications to understand the causes of climate change, from long-term climate evolution to modern human-induced climate change. (Consult the Credit Exclusion list, within the Faculty of Science section in the Calendar.) [3-0-0]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
EOSC_V 114-101	EOSC_V	114	101	The Catastrophic Earth: Natural Disasters	W1	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
EOSC_V 114-102	EOSC_V	114	102	The Catastrophic Earth: Natural Disasters	W1	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
EOSC_V 114-201	EOSC_V	114	201	The Catastrophic Earth: Natural Disasters	W2	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
EOSC_V 114-202	EOSC_V	114	202	The Catastrophic Earth: Natural Disasters	W2	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
EOSC_V 114-99A	EOSC_V	114	99A	The Catastrophic Earth: Natural Disasters	W1	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	Hybrid Learning	Arranged	Arranged
EOSC_V 114-99B	EOSC_V	114	99B	The Catastrophic Earth: Natural Disasters	W1	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	In Person Learning	Arranged	Arranged
EOSC_V 114-99C	EOSC_V	114	99C	The Catastrophic Earth: Natural Disasters	W2	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	Hybrid Learning	Arranged	Arranged
EOSC_V 114-99D	EOSC_V	114	99D	The Catastrophic Earth: Natural Disasters	W2	Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]	In Person Learning	Arranged	Arranged
EOSC_V 116-201	EOSC_V	116	201	Mesozoic Earth: Time of the Dinosaurs.	W2	Earth's tectonics, climate, and oceans during the time of the dinosaurs. Reading the fossil record of Earth from its earliest origins up to and including the Mesozoic, 250 - 65 million years ago. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
EOSC_V 116-99A	EOSC_V	116	99A	Mesozoic Earth: Time of the Dinosaurs.	W1	Earth's tectonics, climate, and oceans during the time of the dinosaurs. Reading the fossil record of Earth from its earliest origins up to and including the Mesozoic, 250 - 65 million years ago. [3-0-0]	Hybrid Learning	Arranged	Arranged
EOSC_V 116-99C	EOSC_V	116	99C	Mesozoic Earth: Time of the Dinosaurs.	W2	Earth's tectonics, climate, and oceans during the time of the dinosaurs. Reading the fossil record of Earth from its earliest origins up to and including the Mesozoic, 250 - 65 million years ago. [3-0-0]	Hybrid Learning	Arranged	Arranged
EOSC_V 118-99A	EOSC_V	118	99A	Earth's Treasures: Gold and Gems	W1	Origin, properties, valuation, prospecting and geology of gold, platinum, silver, diamonds, rubies, emeralds, and other precious metals and gems. [3-0-0]	Hybrid Learning	Arranged	Arranged
EOSC_V 118-99B	EOSC_V	118	99B	Earth's Treasures: Gold and Gems	W1	Origin, properties, valuation, prospecting and geology of gold, platinum, silver, diamonds, rubies, emeralds, and other precious metals and gems. [3-0-0]	In Person Learning	Arranged	Arranged
EOSC_V 118-99C	EOSC_V	118	99C	Earth's Treasures: Gold and Gems	W2	Origin, properties, valuation, prospecting and geology of gold, platinum, silver, diamonds, rubies, emeralds, and other precious metals and gems. [3-0-0]	Hybrid Learning	Arranged	Arranged
EOSC_V 118-99D	EOSC_V	118	99D	Earth's Treasures: Gold and Gems	W2	Origin, properties, valuation, prospecting and geology of gold, platinum, silver, diamonds, rubies, emeralds, and other precious metals and gems. [3-0-0]	In Person Learning	Arranged	Arranged

EOSC_V 210-101	EOSC_V	210	101	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
EOSC_V 210-L1A	EOSC_V	210	L1A	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Wed	5:00 p.m. - 7:00 p.m.
EOSC_V 210-L1B	EOSC_V	210	L1B	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
EOSC_V 210-L1C	EOSC_V	210	L1C	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
EOSC_V 210-L1D	EOSC_V	210	L1D	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
EOSC_V 210-L1E	EOSC_V	210	L1E	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
EOSC_V 210-L1F	EOSC_V	210	L1F	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
EOSC_V 210-L1G	EOSC_V	210	L1G	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EOSC_V 210-L1H	EOSC_V	210	L1H	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
EOSC_V 210-L1I	EOSC_V	210	L1I	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
EOSC_V 210-L1J	EOSC_V	210	L1J	Earth Science for Engineers	W1	Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
EOSC_V 211-101	EOSC_V	211	101	Computer Methods in Earth, Ocean and Atmospheric Sciences	W1	Mathematical computer-based problem solving in the physical, chemical, and biological sciences. Problems drawn from studies of the earth, the oceans and the atmosphere. Credit will be granted for only one of APSC 160 or EOSC 211. [2-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
EOSC_V 211-L1A	EOSC_V	211	L1A	Computer Methods in Earth, Ocean and Atmospheric Sciences	W1	Mathematical computer-based problem solving in the physical, chemical, and biological sciences. Problems drawn from studies of the earth, the oceans and the atmosphere. Credit will be granted for only one of APSC 160 or EOSC 211. [2-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
EOSC_V 211-L1B	EOSC_V	211	L1B	Computer Methods in Earth, Ocean and Atmospheric Sciences	W1	Mathematical computer-based problem solving in the physical, chemical, and biological sciences. Problems drawn from studies of the earth, the oceans and the atmosphere. Credit will be granted for only one of APSC 160 or EOSC 211. [2-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
EOSC_V 212-101	EOSC_V	212	101	Topics in the Earth and Planetary Sciences.	W1	Cutting edge problems in earth, ocean, atmospheric and planetary sciences. Topics will be introduced through discussions of the current literature. [3-0-0] Prerequisite: Second-year standing in science or engineering.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
EOSC_V 213-201	EOSC_V	213	201	Computational Methods in Geological Engineering	W2	Combining basic physical principles with their mathematical description and generating computational models that describe them. Introduction to basic building blocks in modelling, simulation and parameter estimation. [3-1-0] Prerequisite: One of MATH 200, MATH 253 and one of MATH 152, MATH 221, MATH 223 and one of APSC 160, CPSC 103, CPSC 110, EOSC 211.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
EOSC_V 220-101	EOSC_V	220	101	Introductory Mineralogy	W1	Introduction to crystallography, physical and chemical properties of minerals. Recognition and identification of common minerals. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-3-0] Prerequisite: One of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, SCIE 001.	In Person Learning	Tue Thu	1:00 p.m. - 2:00 p.m.
EOSC_V 220-L1A	EOSC_V	220	L1A	Introductory Mineralogy	W1	Introduction to crystallography, physical and chemical properties of minerals. Recognition and identification of common minerals. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-3-0] Prerequisite: One of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, SCIE 001.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
EOSC_V 220-L1B	EOSC_V	220	L1B	Introductory Mineralogy	W1	Introduction to crystallography, physical and chemical properties of minerals. Recognition and identification of common minerals. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-3-0] Prerequisite: One of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, SCIE 001.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EOSC_V 220-L1C	EOSC_V	220	L1C	Introductory Mineralogy	W1	Introduction to crystallography, physical and chemical properties of minerals. Recognition and identification of common minerals. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-3-0] Prerequisite: One of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, SCIE 001.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
EOSC_V 220-L1D	EOSC_V	220	L1D	Introductory Mineralogy	W1	Introduction to crystallography, physical and chemical properties of minerals. Recognition and identification of common minerals. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-3-0] Prerequisite: One of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, SCIE 001.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.

EOSC_V 220-L1E	EOSC_V	220	L1E	Introductory Mineralogy	W1	Introduction to crystallography, physical and chemical properties of minerals. Recognition and identification of common minerals. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-3-0] Prerequisite: One of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, SCIE 001.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
EOSC_V 221-201	EOSC_V	221	201	Introductory Petrology	W2	Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]	In Person Learning	Tue Thu	9:30 a.m. - 10:30 a.m.
EOSC_V 221-L2A	EOSC_V	221	L2A	Introductory Petrology	W2	Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
EOSC_V 221-L2B	EOSC_V	221	L2B	Introductory Petrology	W2	Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
EOSC_V 221-L2C	EOSC_V	221	L2C	Introductory Petrology	W2	Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
EOSC_V 221-L2D	EOSC_V	221	L2D	Introductory Petrology	W2	Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
EOSC_V 221-L2E	EOSC_V	221	L2E	Introductory Petrology	W2	Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
EOSC_V 221-L2F	EOSC_V	221	L2F	Introductory Petrology	W2	Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
EOSC_V 222-201	EOSC_V	222	201	Geological Time and Stratigraphy	W2	Measuring geological time and understanding Earth history using stratigraphic principles, paleontology and radioactive decay. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-2-0] Prerequisite: Second-year standing in Science. One of EOSC 1**, EOSC 210, GEOB 103 is recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
EOSC_V 222-L2A	EOSC_V	222	L2A	Geological Time and Stratigraphy	W2	Measuring geological time and understanding Earth history using stratigraphic principles, paleontology and radioactive decay. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-2-0] Prerequisite: Second-year standing in Science. One of EOSC 1**, EOSC 210, GEOB 103 is recommended.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
EOSC_V 222-L2B	EOSC_V	222	L2B	Geological Time and Stratigraphy	W2	Measuring geological time and understanding Earth history using stratigraphic principles, paleontology and radioactive decay. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-2-0] Prerequisite: Second-year standing in Science. One of EOSC 1**, EOSC 210, GEOB 103 is recommended.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
EOSC_V 222-L2C	EOSC_V	222	L2C	Geological Time and Stratigraphy	W2	Measuring geological time and understanding Earth history using stratigraphic principles, paleontology and radioactive decay. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [2-2-0] Prerequisite: Second-year standing in Science. One of EOSC 1**, EOSC 210, GEOB 103 is recommended.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
EOSC_V 223-201	EOSC_V	223	201	Field Techniques	W2	Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. A fee is to be paid by January 31. [2-2-0] Corequisite: EOSC 221.	In Person Learning	Mon Wed	12:00 p.m. - 1:00 p.m.
EOSC_V 223-L2A	EOSC_V	223	L2A	Field Techniques	W2	Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. A fee is to be paid by January 31. [2-2-0] Corequisite: EOSC 221.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
EOSC_V 223-L2B	EOSC_V	223	L2B	Field Techniques	W2	Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. A fee is to be paid by January 31. [2-2-0] Corequisite: EOSC 221.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
EOSC_V 223-L2C	EOSC_V	223	L2C	Field Techniques	W2	Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. A fee is to be paid by January 31. [2-2-0] Corequisite: EOSC 221.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
EOSC_V 223-L2D	EOSC_V	223	L2D	Field Techniques	W2	Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. A fee is to be paid by January 31. [2-2-0] Corequisite: EOSC 221.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
EOSC_V 223-L2E	EOSC_V	223	L2E	Field Techniques	W2	Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. A fee is to be paid by January 31. [2-2-0] Corequisite: EOSC 221.	In Person Learning	Fri	3:00 p.m. - 6:00 p.m.
EOSC_V 240-201	EOSC_V	240	201	Site Investigation	W2	Theory and practice of site investigation for geological engineers, including background studies, field work, remote sensing, development of ground models, importance of geological variability and uncertainty. Impacts on design, project risk and decision making. [2-2-0] Prerequisite: EOSC 210. Corequisite: CIVL 210.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
EOSC_V 240-L2A	EOSC_V	240	L2A	Site Investigation	W2	Theory and practice of site investigation for geological engineers, including background studies, field work, remote sensing, development of ground models, importance of geological variability and uncertainty. Impacts on design, project risk and decision making. [2-2-0] Prerequisite: EOSC 210. Corequisite: CIVL 210.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.

EOSC_V 250-201	EOSC_V	250	201	Fields and Fluxes	W2	Application of classical theory of scalar and vector fields to geophysical sciences. Conductive, convective and radiative energy flux, gravitation, electrostatics, and magnetostatics. Gauss' and Stokes' theorems. [3-0-0] Prerequisite: One of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157. Corequisite: [MATH200] One of PHYS 108, 118, 158 is recommended.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
EOSC_V 270-201	EOSC_V	270	201	Marine Ecosystems	W2	Introduction to diversity of marine habitats and ecosystems; hydrothermal vent, intertidal, coral reef, estuarine, deep sea, and polar ecosystems; impacts of ecosystem change; evolution of ocean plankton; invasive species; climate change; pollution. [3-0-0] Prerequisite: One of SCIE 001, CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, CHEM 154.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
EOSC_V 310-201	EOSC_V	310	201	The Earth and the Solar System	W2	The Earth as a planet: its composition, internal dynamics, and surface evolution. Rotation, magnetic field, plate tectonics, earthquakes, volcanoes. The ocean, atmosphere, and biosphere as components of a varying geo-environment. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/facultiescolleges-and-schools/faculty-science/bachelorscience/credit-exclusion-lists [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Arranged	Arranged
EOSC_V 310-99A	EOSC_V	310	99A	The Earth and the Solar System	W1	The Earth as a planet: its composition, internal dynamics, and surface evolution. Rotation, magnetic field, plate tectonics, earthquakes, volcanoes. The ocean, atmosphere, and biosphere as components of a varying geo-environment. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/facultiescolleges-and-schools/faculty-science/bachelorscience/credit-exclusion-lists [3-0-0] Prerequisite: Class standing 2.	Hybrid Learning	Arranged	Arranged
EOSC_V 310-99C	EOSC_V	310	99C	The Earth and the Solar System	W2	The Earth as a planet: its composition, internal dynamics, and surface evolution. Rotation, magnetic field, plate tectonics, earthquakes, volcanoes. The ocean, atmosphere, and biosphere as components of a varying geo-environment. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/facultiescolleges-and-schools/faculty-science/bachelorscience/credit-exclusion-lists [3-0-0] Prerequisite: Class standing 2.	Hybrid Learning	Arranged	Arranged
EOSC_V 311-101	EOSC_V	311	101	The Earth and its Resources	W1	An introduction to the Earth with emphasis on its industrial and aesthetic resources. Rocks, minerals, gold, diamonds, sediments, fossils, oil and gas, canyons, and volcanoes and the processes that create them. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Arranged	Arranged
EOSC_V 311-99C	EOSC_V	311	99C	The Earth and its Resources	W2	An introduction to the Earth with emphasis on its industrial and aesthetic resources. Rocks, minerals, gold, diamonds, sediments, fossils, oil and gas, canyons, and volcanoes and the processes that create them. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Arranged	Arranged
EOSC_V 314-101	EOSC_V	314	101	The Ocean Environment	W1	An introduction to the oceans and the processes that have shaped them, their composition and movement, waves, tides, beaches, interactions with the atmosphere and human exploitation of the non-living resources. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Arranged	Arranged
EOSC_V 314-201	EOSC_V	314	201	The Ocean Environment	W2	An introduction to the oceans and the processes that have shaped them, their composition and movement, waves, tides, beaches, interactions with the atmosphere and human exploitation of the non-living resources. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
EOSC_V 314-99A	EOSC_V	314	99A	The Ocean Environment	W1	An introduction to the oceans and the processes that have shaped them, their composition and movement, waves, tides, beaches, interactions with the atmosphere and human exploitation of the non-living resources. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	Hybrid Learning	Arranged	Arranged
EOSC_V 314-99C	EOSC_V	314	99C	The Ocean Environment	W2	An introduction to the oceans and the processes that have shaped them, their composition and movement, waves, tides, beaches, interactions with the atmosphere and human exploitation of the non-living resources. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Arranged	Arranged
EOSC_V 315-101	EOSC_V	315	101	The Ocean Ecosystem	W1	An introduction to life in the oceans, its variety and evolution; primary producers and their links to the environment, zooplankton, marine communities, living marine resources and their role in today's world. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
EOSC_V 315-201	EOSC_V	315	201	The Ocean Ecosystem	W2	An introduction to life in the oceans, its variety and evolution; primary producers and their links to the environment, zooplankton, marine communities, living marine resources and their role in today's world. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Arranged	Arranged
EOSC_V 315-99A	EOSC_V	315	99A	The Ocean Ecosystem	W1	An introduction to life in the oceans, its variety and evolution; primary producers and their links to the environment, zooplankton, marine communities, living marine resources and their role in today's world. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	In Person Learning	Arranged	Arranged

EOSC_V 315-99C	EOSC_V	315	99C	The Ocean Ecosystem	W2	An introduction to life in the oceans, its variety and evolution; primary producers and their links to the environment, zooplankton, marine communities, living marine resources and their role in today's world. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. ( <a href="https://www.eoas.ubc.ca/undergrad/degrees">https://www.eoas.ubc.ca/undergrad/degrees</a> ). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.	Online Learning	Arranged	Arranged
EOSC_V 320-201	EOSC_V	320	201	Sedimentology	W2	Origin, diagenesis and geochemistry of sediments and sedimentary rocks. [2-2-0] Prerequisite: EOSC 221 and one of EOSC 210, EOSC 222.	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
EOSC_V 320-L2A	EOSC_V	320	L2A	Sedimentology	W2	Origin, diagenesis and geochemistry of sediments and sedimentary rocks. [2-2-0] Prerequisite: EOSC 221 and one of EOSC 210, EOSC 222.	In Person Learning	Mon	11:00 a.m. - 1:00 p.m.
EOSC_V 320-L2B	EOSC_V	320	L2B	Sedimentology	W2	Origin, diagenesis and geochemistry of sediments and sedimentary rocks. [2-2-0] Prerequisite: EOSC 221 and one of EOSC 210, EOSC 222.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
EOSC_V 320-L2C	EOSC_V	320	L2C	Sedimentology	W2	Origin, diagenesis and geochemistry of sediments and sedimentary rocks. [2-2-0] Prerequisite: EOSC 221 and one of EOSC 210, EOSC 222.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
EOSC_V 321-101	EOSC_V	321	101	Igneous Petrology	W1	The origin and formation of igneous rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
EOSC_V 321-L1A	EOSC_V	321	L1A	Igneous Petrology	W1	The origin and formation of igneous rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
EOSC_V 321-L1B	EOSC_V	321	L1B	Igneous Petrology	W1	The origin and formation of igneous rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
EOSC_V 321-L1C	EOSC_V	321	L1C	Igneous Petrology	W1	The origin and formation of igneous rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
EOSC_V 322-201	EOSC_V	322	201	Metamorphic Petrology	W2	Deciphering lithospheric processes as recorded by the mineralogy, chemistry and textures of metamorphosed rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Tue Thu	9:00 a.m. - 10:00 a.m.
EOSC_V 322-L2A	EOSC_V	322	L2A	Metamorphic Petrology	W2	Deciphering lithospheric processes as recorded by the mineralogy, chemistry and textures of metamorphosed rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
EOSC_V 322-L2B	EOSC_V	322	L2B	Metamorphic Petrology	W2	Deciphering lithospheric processes as recorded by the mineralogy, chemistry and textures of metamorphosed rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
EOSC_V 322-L2C	EOSC_V	322	L2C	Metamorphic Petrology	W2	Deciphering lithospheric processes as recorded by the mineralogy, chemistry and textures of metamorphosed rocks. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
EOSC_V 323-101	EOSC_V	323	101	Structural Geology I	W1	Analysis and interpretation of natural deformation. [2-3-0] Prerequisite: All of EOSC 221, EOSC 223 and one of EOSC 210, EOSC 222.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
EOSC_V 323-L1A	EOSC_V	323	L1A	Structural Geology I	W1	Analysis and interpretation of natural deformation. [2-3-0] Prerequisite: All of EOSC 221, EOSC 223 and one of EOSC 210, EOSC 222.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
EOSC_V 323-L1B	EOSC_V	323	L1B	Structural Geology I	W1	Analysis and interpretation of natural deformation. [2-3-0] Prerequisite: All of EOSC 221, EOSC 223 and one of EOSC 210, EOSC 222.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.
EOSC_V 323-L1C	EOSC_V	323	L1C	Structural Geology I	W1	Analysis and interpretation of natural deformation. [2-3-0] Prerequisite: All of EOSC 221, EOSC 223 and one of EOSC 210, EOSC 222.	In Person Learning	Fri	3:00 p.m. - 6:00 p.m.
EOSC_V 323-L1D	EOSC_V	323	L1D	Structural Geology I	W1	Analysis and interpretation of natural deformation. [2-3-0] Prerequisite: All of EOSC 221, EOSC 223 and one of EOSC 210, EOSC 222.	In Person Learning	Mon	4:00 p.m. - 7:00 p.m.
EOSC_V 323-L1E	EOSC_V	323	L1E	Structural Geology I	W1	Analysis and interpretation of natural deformation. [2-3-0] Prerequisite: All of EOSC 221, EOSC 223 and one of EOSC 210, EOSC 222.	In Person Learning	Arranged	Arranged
EOSC_V 325-101	EOSC_V	325	101	Principles of Physical Hydrogeology	W1	Theories of storage and movement of water within groundwater systems; Groundwater-surface water interaction; Role of groundwater systems in watershed management and regulating the environmental impacts of global change; Groundwater sustainability; Impacts of climate & land use changes on groundwater resources This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: (a) 3rd year standing in Science, Land and Food Systems, or Forestry; and (b) One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
EOSC_V 325-T01	EOSC_V	325	T01	Principles of Physical Hydrogeology	W1	Theories of storage and movement of water within groundwater systems; Groundwater-surface water interaction; Role of groundwater systems in watershed management and regulating the environmental impacts of global change; Groundwater sustainability; Impacts of climate & land use changes on groundwater resources This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: (a) 3rd year standing in Science, Land and Food Systems, or Forestry; and (b) One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.

EOSC_V 326-101	EOSC_V	326	101	Earth and Life Through Time	W1	The fossil record of adaptation and extinction emphasizing the interaction of biological and geological processes. Not for credit in Geological Sciences and Geophysics specializations. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: Biology 100-level and third-year standing in Science.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
EOSC_V 326-99A	EOSC_V	326	99A	Earth and Life Through Time	W1	The fossil record of adaptation and extinction emphasizing the interaction of biological and geological processes. Not for credit in Geological Sciences and Geophysics specializations. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: Biology 100-level and third-year standing in Science.	In Person Learning	Arranged	Arranged
EOSC_V 326-99C	EOSC_V	326	99C	Earth and Life Through Time	W2	The fossil record of adaptation and extinction emphasizing the interaction of biological and geological processes. Not for credit in Geological Sciences and Geophysics specializations. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: Biology 100-level and third-year standing in Science.	Hybrid Learning	Arranged	Arranged
EOSC_V 328-201	EOSC_V	328	201	Field Geology	W2	Recording and processing geological data in the field. Held within the three weeks following April examinations after third year. A special fee is to be paid by January 31. Prerequisite: All of EOSC 323, EOSC 330 and one of EOSC 321, EOSC 322	In Person Learning	Arranged	Arranged
EOSC_V 329-101	EOSC_V	329	101	Quantitative Groundwater Hydrology	W1	Introduction to theory of groundwater flow; flow nets; regional groundwater resource evaluation; well hydraulics; role of groundwater in geologic processes, case studies. [2-3*-3*] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
EOSC_V 329-L1A	EOSC_V	329	L1A	Quantitative Groundwater Hydrology	W1	Introduction to theory of groundwater flow; flow nets; regional groundwater resource evaluation; well hydraulics; role of groundwater in geologic processes, case studies. [2-3*-3*] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
EOSC_V 329-L1B	EOSC_V	329	L1B	Quantitative Groundwater Hydrology	W1	Introduction to theory of groundwater flow; flow nets; regional groundwater resource evaluation; well hydraulics; role of groundwater in geologic processes, case studies. [2-3*-3*] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue	3:30 p.m. - 5:30 p.m.
EOSC_V 329-L1C	EOSC_V	329	L1C	Quantitative Groundwater Hydrology	W1	Introduction to theory of groundwater flow; flow nets; regional groundwater resource evaluation; well hydraulics; role of groundwater in geologic processes, case studies. [2-3*-3*] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Thu	3:30 p.m. - 5:30 p.m.
EOSC_V 329-L1D	EOSC_V	329	L1D	Quantitative Groundwater Hydrology	W1	Introduction to theory of groundwater flow; flow nets; regional groundwater resource evaluation; well hydraulics; role of groundwater in geologic processes, case studies. [2-3*-3*] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
EOSC_V 330-101	EOSC_V	330	101	Principles of Geomorphology	W1	Landform development; morphological and historical analysis of landforms; applications in engineering and resource development. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2-0] Prerequisite: One of GEOB 103, EOSC 110, EOSC 210.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
EOSC_V 330-L1A	EOSC_V	330	L1A	Principles of Geomorphology	W1	Landform development; morphological and historical analysis of landforms; applications in engineering and resource development. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2-0] Prerequisite: One of GEOB 103, EOSC 110, EOSC 210.	In Person Learning	Tue	3:30 p.m. - 5:30 p.m.
EOSC_V 330-L1B	EOSC_V	330	L1B	Principles of Geomorphology	W1	Landform development; morphological and historical analysis of landforms; applications in engineering and resource development. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2-0] Prerequisite: One of GEOB 103, EOSC 110, EOSC 210.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
EOSC_V 330-L1C	EOSC_V	330	L1C	Principles of Geomorphology	W1	Landform development; morphological and historical analysis of landforms; applications in engineering and resource development. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2-0] Prerequisite: One of GEOB 103, EOSC 110, EOSC 210.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
EOSC_V 330-L1D	EOSC_V	330	L1D	Principles of Geomorphology	W1	Landform development; morphological and historical analysis of landforms; applications in engineering and resource development. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2-0] Prerequisite: One of GEOB 103, EOSC 110, EOSC 210.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
EOSC_V 331-101	EOSC_V	331	101	Introduction to Mineral Deposits	W1	Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
EOSC_V 331-L1A	EOSC_V	331	L1A	Introduction to Mineral Deposits	W1	Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
EOSC_V 331-L1B	EOSC_V	331	L1B	Introduction to Mineral Deposits	W1	Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
EOSC_V 331-L1C	EOSC_V	331	L1C	Introduction to Mineral Deposits	W1	Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
EOSC_V 332-201	EOSC_V	332	201	Tectonic Evolution of North America	W2	An overview of the geology and tectonic evolution of North America; comparisons and contrasts between Precambrian rocks of the North American craton and Phanerozoic belts of the Cordilleran, Appalachian, Ouachita and Innuitian orogens; interrelations between sedimentation, deformation, metamorphism and magmatism in a plate tectonic context. [3-0-0] Prerequisite: [EOSC323] or permission of the instructor.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
EOSC_V 333-201	EOSC_V	333	201	Elemental and Isotopic Geochemistry	W2	Analytical methods in geochemistry, major and trace element geochemistry, radiogenic isotopes, geochemistry of seawater, the mantle, basalts, subduction zones, sedimentary rocks, continental crust. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.

EOSC_V 333-L2A	EOSC_V	333	L2A	Elemental and Isotopic Geochemistry	W2	Analytical methods in geochemistry, major and trace element geochemistry, radiogenic isotopes, geochemistry of seawater, the mantle, basalts, subduction zones, sedimentary rocks, continental crust. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
EOSC_V 333-L2B	EOSC_V	333	L2B	Elemental and Isotopic Geochemistry	W2	Analytical methods in geochemistry, major and trace element geochemistry, radiogenic isotopes, geochemistry of seawater, the mantle, basalts, subduction zones, sedimentary rocks, continental crust. [2-3-0] Prerequisite: EOSC 221.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
EOSC_V 340-101	EOSC_V	340	101	Climate Change: Causes and Solutions	W1	Mechanisms and processes of past and future global climate change. Climate models and projected impacts. Climate solutions including carbon sequestration, adaptation and geoengineering. [3-0-0] Prerequisite: Either (a) SCIE 001 or (b) one of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, CHEM 154 and one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 153, PHYS 157.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
EOSC_V 340-201	EOSC_V	340	201	Climate Change: Causes and Solutions	W2	Mechanisms and processes of past and future global climate change. Climate models and projected impacts. Climate solutions including carbon sequestration, adaptation and geoengineering. [3-0-0] Prerequisite: Either (a) SCIE 001 or (b) one of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, CHEM 154 and one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 153, PHYS 157.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
EOSC_V 350-101	EOSC_V	350	101	Environmental, Geotechnical, and Exploration Geophysics I	W1	Principles of geophysical survey design, data acquisition, processing and interpretation with emphasis on near-surface problems. Magnetic, seismic reflection/refraction, electromagnetic and ground penetrating radar surveys. Case history analysis of environmental and geotechnical problems. [3-2-0] Prerequisite: [MATH200, MATH253] and third-year standing or higher in Science or Applied Science.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
EOSC_V 350-L1A	EOSC_V	350	L1A	Environmental, Geotechnical, and Exploration Geophysics I	W1	Principles of geophysical survey design, data acquisition, processing and interpretation with emphasis on near-surface problems. Magnetic, seismic reflection/refraction, electromagnetic and ground penetrating radar surveys. Case history analysis of environmental and geotechnical problems. [3-2-0] Prerequisite: [MATH200, MATH253] and third-year standing or higher in Science or Applied Science.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
EOSC_V 350-L1B	EOSC_V	350	L1B	Environmental, Geotechnical, and Exploration Geophysics I	W1	Principles of geophysical survey design, data acquisition, processing and interpretation with emphasis on near-surface problems. Magnetic, seismic reflection/refraction, electromagnetic and ground penetrating radar surveys. Case history analysis of environmental and geotechnical problems. [3-2-0] Prerequisite: [MATH200, MATH253] and third-year standing or higher in Science or Applied Science.	In Person Learning	Tue	3:30 p.m. - 5:30 p.m.
EOSC_V 352-101	EOSC_V	352	101	Geophysical Continuum Dynamics	W1	Introduction to tensor calculus and continuum mechanics. Stress, strain and strain-rate tensors. Mass, momentum and energy balance. Applications to problems of geophysical heat transport, elasticity and fluid dynamics. [3-0-0] Prerequisite: One of EOSC 250, MATH 317.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
EOSC_V 352-201	EOSC_V	352	201	Geophysical Continuum Dynamics	W2	Introduction to tensor calculus and continuum mechanics. Stress, strain and strain-rate tensors. Mass, momentum and energy balance. Applications to problems of geophysical heat transport, elasticity and fluid dynamics. [3-0-0] Prerequisite: One of EOSC 250, MATH 317.	In Person Learning	Arranged	Arranged
EOSC_V 354-101	EOSC_V	354	101	Analysis of Time Series and Inverse Theory for Earth Scientists	W1	Continuous and discrete Fourier transforms, correlation and convolution, spectral estimates, optimum least-squares filters, deconvolution and prediction, frequency-wave number filtering. A practical course on computer techniques applied to the analysis of a wide range of geophysical phenomena. [3-2-0] Prerequisite: Either (a) SCIE 001 or (b) one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
EOSC_V 354-L1A	EOSC_V	354	L1A	Analysis of Time Series and Inverse Theory for Earth Scientists	W1	Continuous and discrete Fourier transforms, correlation and convolution, spectral estimates, optimum least-squares filters, deconvolution and prediction, frequency-wave number filtering. A practical course on computer techniques applied to the analysis of a wide range of geophysical phenomena. [3-2-0] Prerequisite: Either (a) SCIE 001 or (b) one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
EOSC_V 372-101	EOSC_V	372	101	Introductory Oceanography: Circulation and Plankton	W1	Physical and chemical processes and their controls on the distribution of plankton in the ocean. [3-0-0] Prerequisite: Either (a) SCIE 001 or (b) one of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, CHEM 154 and one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 153, PHYS 157.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
EOSC_V 372-102	EOSC_V	372	102	Introductory Oceanography: Circulation and Plankton	W1	Physical and chemical processes and their controls on the distribution of plankton in the ocean. [3-0-0] Prerequisite: Either (a) SCIE 001 or (b) one of CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, CHEM 154 and one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 153, PHYS 157.	In Person Learning	Arranged	Arranged
EOSC_V 373-201	EOSC_V	373	201	Introductory Oceanography: Climate and Ecosystems	W2	Physical, chemical, and biological processes in the ocean and their interaction with climate and marine food-webs. [3-0-0] Prerequisite: EOSC 372.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
EOSC_V 398-101	EOSC_V	398	101	Co-operative Work Placement I	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following second year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 398-201	EOSC_V	398	201	Co-operative Work Placement I	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following second year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 399-001	EOSC_V	399	001	Co-operative Work Placement II	W1-2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in Winter Session (Term 1) in third year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 399-101	EOSC_V	399	101	Co-operative Work Placement II	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in Winter Session (Term 1) in third year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

EOSC_V 399-201	EOSC_V	399	201	Co-operative Work Placement II	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in Winter Session (Term 1) in third year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 410-101	EOSC_V	410	101	Geoscientific Data Analysis and Empirical Modelling	W1	Application of data analysis and empirical modelling strategies for conducting a data-oriented research in geosciences; from setting research questions and hypothesis to delivering and interpreting results. Examples are drawn from across the Earth, ocean, atmospheric and planetary sciences. [3-0-0] Prerequisite: One of STAT 200, BIOL 300 and one of MATH 200, MATH 221, EOSC 250 and one of EOSC 211, CPSC 203, CPSC 210.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
EOSC_V 420-101	EOSC_V	420	101	Volcanology	W1	Field and lab-based studies in volcanology concentrating on physical and chemical aspects of volcanic processes. [2-3-0] Prerequisite: EOSC220,EOSC221	In Person Learning	Tue Thu	9:00 a.m. - 10:00 a.m.
EOSC_V 420-L1A	EOSC_V	420	L1A	Volcanology	W1	Field and lab-based studies in volcanology concentrating on physical and chemical aspects of volcanic processes. [2-3-0] Prerequisite: EOSC220,EOSC221	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
EOSC_V 420-L1B	EOSC_V	420	L1B	Volcanology	W1	Field and lab-based studies in volcanology concentrating on physical and chemical aspects of volcanic processes. [2-3-0] Prerequisite: EOSC220,EOSC221	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
EOSC_V 421-101	EOSC_V	421	101	Advanced Sedimentology	W1	Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. [2-2-0] Prerequisite: [EOSC320] or permission of instructor.	In Person Learning	Arranged	Arranged
EOSC_V 421-201	EOSC_V	421	201	Advanced Sedimentology	W2	Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. [2-2-0] Prerequisite: [EOSC320] or permission of instructor.	In Person Learning	Arranged	Arranged
EOSC_V 421-L1A	EOSC_V	421	L1A	Advanced Sedimentology	W1	Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. [2-2-0] Prerequisite: [EOSC320] or permission of instructor.	In Person Learning	Arranged	Arranged
EOSC_V 421-L2A	EOSC_V	421	L2A	Advanced Sedimentology	W2	Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. [2-2-0] Prerequisite: [EOSC320] or permission of instructor.	In Person Learning	Arranged	Arranged
EOSC_V 422-201	EOSC_V	422	201	Structural Geology II	W2	Studies of natural deformation using advanced techniques. [2-3-0] Prerequisite: [EOSC323]	In Person Learning	Arranged	Arranged
EOSC_V 422-L2A	EOSC_V	422	L2A	Structural Geology II	W2	Studies of natural deformation using advanced techniques. [2-3-0] Prerequisite: [EOSC323]	In Person Learning	Arranged	Arranged
EOSC_V 422-L2B	EOSC_V	422	L2B	Structural Geology II	W2	Studies of natural deformation using advanced techniques. [2-3-0] Prerequisite: [EOSC323]	In Person Learning	Arranged	Arranged
EOSC_V 424-201	EOSC_V	424	201	Advanced Mineral Deposits	W2	Advanced concepts in the processes that lead to the formation of mineral deposits. Introduction to the study of ore minerals using reflected light microscopy. [2-3-0] Prerequisite: EOSC 331.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
EOSC_V 424-L2A	EOSC_V	424	L2A	Advanced Mineral Deposits	W2	Advanced concepts in the processes that lead to the formation of mineral deposits. Introduction to the study of ore minerals using reflected light microscopy. [2-3-0] Prerequisite: EOSC 331.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
EOSC_V 424-L2B	EOSC_V	424	L2B	Advanced Mineral Deposits	W2	Advanced concepts in the processes that lead to the formation of mineral deposits. Introduction to the study of ore minerals using reflected light microscopy. [2-3-0] Prerequisite: EOSC 331.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
EOSC_V 425-101	EOSC_V	425	101	Paleontology	W1	Paleobiogeography in the context of plate tectonics. Mass extinction events. Fossilization and biases in the fossil record. Species concepts in paleontology. Biostratigraphy. Paleontological evidence for early life; the colonization of oceanic and terrestrial environments and; the evolution of the primates. [2-3-0] Prerequisite: EOSC 222.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
EOSC_V 425-L1A	EOSC_V	425	L1A	Paleontology	W1	Paleobiogeography in the context of plate tectonics. Mass extinction events. Fossilization and biases in the fossil record. Species concepts in paleontology. Biostratigraphy. Paleontological evidence for early life; the colonization of oceanic and terrestrial environments and; the evolution of the primates. [2-3-0] Prerequisite: EOSC 222.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
EOSC_V 425-L1B	EOSC_V	425	L1B	Paleontology	W1	Paleobiogeography in the context of plate tectonics. Mass extinction events. Fossilization and biases in the fossil record. Species concepts in paleontology. Biostratigraphy. Paleontological evidence for early life; the colonization of oceanic and terrestrial environments and; the evolution of the primates. [2-3-0] Prerequisite: EOSC 222.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
EOSC_V 426-101	EOSC_V	426	101	Fundamentals of Geomicrobiology	W1	Foundational knowledge of the interactions between microorganisms and Earth's surface chemistry. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of BIOL 111, BIOL 112, BIOL 121, CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, EOSC 110, EOSC 112. Third year standing in Science.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
EOSC_V 426-201	EOSC_V	426	201	Fundamentals of Geomicrobiology	W2	Foundational knowledge of the interactions between microorganisms and Earth's surface chemistry. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of BIOL 111, BIOL 112, BIOL 121, CHEM 110, CHEM 111, CHEM 120, CHEM 121, CHEM 141, EOSC 110, EOSC 112. Third year standing in Science.	In Person Learning	Arranged	Arranged
EOSC_V 428-201	EOSC_V	428	201	Field Techniques in Groundwater Hydrology	W2	Hydraulic head measurements, water-quality sampling, pump and slug testing, infiltration measurements, profiling techniques. Held over five days after spring term at the Richmond groundwater hydrology field-school site. Enrollment limitations. Prerequisite: One of EOSC 325, EOSC 329.	In Person Learning	Arranged	Arranged

EOSC_V 429-201	EOSC_V	429	201	Groundwater Contamination	W2	Contaminant transport processes in groundwater flow systems; aqueous and multiphase transport; mathematical models describing migration and chemical evolution of contaminant plumes; case studies. [2-2-0] Prerequisite: One of EOSC 325, EOSC 329.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.	
EOSC_V 429-L2A	EOSC_V	429	L2A	Groundwater Contamination	W2	Contaminant transport processes in groundwater flow systems; aqueous and multiphase transport; mathematical models describing migration and chemical evolution of contaminant plumes; case studies. [2-2-0] Prerequisite: One of EOSC 325, EOSC 329.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.	
EOSC_V 430-101	EOSC_V	430	101	Aqueous Geochemistry	W1	Quantitative approaches to practical aqueous geochemistry problems. Equilibrium thermodynamics, kinetics, complexation, oxidation reduction, cation exchange, sorption and partitioning of organics. Case Studies. [2-2-0] Prerequisite: One of CHEM 123, CHEM 130, CHEM 154, SCIE 001. Corequisite: One of EOSC 325, EOSC 329.	In Person Learning	Arranged	Arranged	
EOSC_V 430-L1A	EOSC_V	430	L1A	Aqueous Geochemistry	W1	Quantitative approaches to practical aqueous geochemistry problems. Equilibrium thermodynamics, kinetics, complexation, oxidation reduction, cation exchange, sorption and partitioning of organics. Case Studies. [2-2-0] Prerequisite: One of CHEM 123, CHEM 130, CHEM 154, SCIE 001. Corequisite: One of EOSC 325, EOSC 329.	In Person Learning	Arranged	Arranged	
EOSC_V 432-201	EOSC_V	432	201	Fossil Fuels	W2	Origin, geochemistry and distribution of petroleum and coal in the stratigraphic record. Sedimentation of organic matter, organic diagenesis, migration and accumulation of hydrocarbons. Principles of exploration and development. Techniques for measurement of organic maturation and source rock analyses. [2-2-0] Corequisite: EOSC 320.	In Person Learning	Arranged	Arranged	
EOSC_V 432-L2A	EOSC_V	432	L2A	Fossil Fuels	W2	Origin, geochemistry and distribution of petroleum and coal in the stratigraphic record. Sedimentation of organic matter, organic diagenesis, migration and accumulation of hydrocarbons. Principles of exploration and development. Techniques for measurement of organic maturation and source rock analyses. [2-2-0] Corequisite: EOSC 320.	In Person Learning	Arranged	Arranged	
EOSC_V 432-L2B	EOSC_V	432	L2B	Fossil Fuels	W2	Origin, geochemistry and distribution of petroleum and coal in the stratigraphic record. Sedimentation of organic matter, organic diagenesis, migration and accumulation of hydrocarbons. Principles of exploration and development. Techniques for measurement of organic maturation and source rock analyses. [2-2-0] Corequisite: EOSC 320.	In Person Learning	Arranged	Arranged	
EOSC_V 433-101	EOSC_V	433	101	Geological Engineering Practice I - Rock Engineering	W1	Application of rock mechanics, hydrogeology, and engineering design tools in realistically complex geological environments. Influence and treatment of geological uncertainty, and use of field data, geotechnical monitoring, and numerical analyses for tunnelling, mining and rock slope engineering projects. Case histories. [2-2-0] Prerequisite: All of EOSC 329, CIVL 210, MINE 303.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.	
EOSC_V 433-L1A	EOSC_V	433	L1A	Geological Engineering Practice I - Rock Engineering	W1	Application of rock mechanics, hydrogeology, and engineering design tools in realistically complex geological environments. Influence and treatment of geological uncertainty, and use of field data, geotechnical monitoring, and numerical analyses for tunnelling, mining and rock slope engineering projects. Case histories. [2-2-0] Prerequisite: All of EOSC 329, CIVL 210, MINE 303.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.	
EOSC_V 433-L1B	EOSC_V	433	L1B	Geological Engineering Practice I - Rock Engineering	W1	Application of rock mechanics, hydrogeology, and engineering design tools in realistically complex geological environments. Influence and treatment of geological uncertainty, and use of field data, geotechnical monitoring, and numerical analyses for tunnelling, mining and rock slope engineering projects. Case histories. [2-2-0] Prerequisite: All of EOSC 329, CIVL 210, MINE 303.	In Person Learning	Thu	3:30 p.m. - 5:30 p.m.	
EOSC_V 434-201	EOSC_V	434	201	Geological Engineering Practice II - Soil Engineering	W2	Application of geomorphology, hydrogeology, and soil mechanics to geotechnical design. Influence and treatment of geological uncertainty in geotechnical hazard and risk assessments; multi-disciplinary approaches to geotechnical engineering problems in realistically complex geological environments. Case histories. [2-2-0] Prerequisite: All of EOSC 329, EOSC 330, CIVL 210.	In Person Learning	Arranged	Arranged	
EOSC_V 434-L2A	EOSC_V	434	L2A	Geological Engineering Practice II - Soil Engineering	W2	Application of geomorphology, hydrogeology, and soil mechanics to geotechnical design. Influence and treatment of geological uncertainty in geotechnical hazard and risk assessments; multi-disciplinary approaches to geotechnical engineering problems in realistically complex geological environments. Case histories. [2-2-0] Prerequisite: All of EOSC 329, EOSC 330, CIVL 210.	In Person Learning	Thu	3:30 p.m. - 5:30 p.m.	
EOSC_V 434-L2B	EOSC_V	434	L2B	Geological Engineering Practice II - Soil Engineering	W2	Application of geomorphology, hydrogeology, and soil mechanics to geotechnical design. Influence and treatment of geological uncertainty in geotechnical hazard and risk assessments; multi-disciplinary approaches to geotechnical engineering problems in realistically complex geological environments. Case histories. [2-2-0] Prerequisite: All of EOSC 329, EOSC 330, CIVL 210.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.	
EOSC_V 442-101	EOSC_V	442	101	Climate Measurement and Analysis	W1	Local climate time series collection and analysis. Retrieval and analysis of online climate data and model output. [0-3-0] Prerequisite: One of EOSC 340, EOSC 345 and one of CPSC 103, CPSC 110, EOSC 211, MATH 210, PHYS 210 and one of STAT 200, STAT 201, STAT 251, BIOL 300.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.	
EOSC_V 442-201	EOSC_V	442	201	Climate Measurement and Analysis	W2	Local climate time series collection and analysis. Retrieval and analysis of online climate data and model output. [0-3-0] Prerequisite: One of EOSC 340, EOSC 345 and one of CPSC 103, CPSC 110, EOSC 211, MATH 210, PHYS 210 and one of STAT 200, STAT 201, STAT 251, BIOL 300.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
EOSC_V 442-L1A	EOSC_V	442	L1A	Climate Measurement and Analysis	W1	Local climate time series collection and analysis. Retrieval and analysis of online climate data and model output. [0-3-0] Prerequisite: One of EOSC 340, EOSC 345 and one of CPSC 103, CPSC 110, EOSC 211, MATH 210, PHYS 210 and one of STAT 200, STAT 201, STAT 251, BIOL 300.	In Person Learning	Arranged	Arranged	
EOSC_V 442-L2A	EOSC_V	442	L2A	Climate Measurement and Analysis	W2	Local climate time series collection and analysis. Retrieval and analysis of online climate data and model output. [0-3-0] Prerequisite: One of EOSC 340, EOSC 345 and one of CPSC 103, CPSC 110, EOSC 211, MATH 210, PHYS 210 and one of STAT 200, STAT 201, STAT 251, BIOL 300.	In Person Learning	Arranged	Arranged	
EOSC_V 445-001	EOSC_V	445	001	Engineering Design Project	W1-2	Geological engineering design project from scope definition to final design. Based on a problem from industry. [2*-3-0, 2*-3-0] Prerequisite: All of EOSC 323, EOSC 330, CIVL 316. Corequisite: All of EOSC 433, CIVL 410.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.	
EOSC_V 447-001	EOSC_V	447	001	Thesis	W1-2	For B.A.Sc. Topic to be approved by the Department. [0-3-0] Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an undergraduate advisor and of the supervising faculty member is required before registration.	In Person Learning	Arranged	Arranged	
EOSC_V 448-A_101	EOSC_V	448	A	A_101	Directed Studies	W1	The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

EOSC_V 448-A_102	EOSC_V	448	A	A_102	Directed Studies	W1	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an undergraduate advisor and of the supervising faculty member is required before registration. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
EOSC_V 448-A_201	EOSC_V	448	A	A_201	Directed Studies	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an undergraduate advisor and of the supervising faculty member is required before registration. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
EOSC_V 448-B_201	EOSC_V	448	B	B_201	Directed Studies	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an undergraduate advisor and of the supervising faculty member is required before registration. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
EOSC_V 448-B_202	EOSC_V	448	B	B_202	Directed Studies	W2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an undergraduate advisor and of the supervising faculty member is required before registration. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
EOSC_V 448-C_001	EOSC_V	448	C	C_001	Directed Studies	W1-2	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an undergraduate advisor and of the supervising faculty member is required before registration. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
EOSC_V 448-D_101	EOSC_V	448	D	D_101	Directed Studies	W1	Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of an undergraduate advisor and of the supervising faculty member is required before registration. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
EOSC_V 449-001	EOSC_V	449		001	Thesis	W1-2	Original research work under the direction of a faculty member. Required of all honours students. Open to major students with a satisfactory standing, appropriate background courses and permission of the course instructor and the directing faculty member.	In Person Learning	Arranged	Arranged
EOSC_V 450-101	EOSC_V	450		101	Interior Structure of Earth and Planets	W1	Theory, application and quantitative interpretation of potential field methods for use in exploring the interior structure of Earth and planets. Topics drawn from problems in geophysical exploration, geodesy, geodynamics, geomagnetism, planetary magnetic fields, heat flow and fluid flow. [3-0-0] Prerequisite: One of PHYS 312, MATH 316, MATH 257 and one of PHYS 102, PHYS 108, PHYS 118, PHYS 158, SCIE 001.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
EOSC_V 453-101	EOSC_V	453		101	Physics of the Earth and Other Planets	W1	Identification and quantitative analysis of diverse physical problems in the earth, ocean, atmospheric, and planetary sciences. [3-0-0] Prerequisite: [PHYS312, MATH316, MATH257]	In Person Learning	Mon Wed	5:00 p.m. - 7:00 p.m.
EOSC_V 454-201	EOSC_V	454		201	Applied Geophysics	W2	Using geophysics to characterize the Earth's subsurface for resource exploration, engineering, or environmental applications. Data acquisition, processing, and interpretation of geophysical surveys. Inversion examples drawn from potential (electrical, magnetic, gravity) or wave field (seismic, ground penetrating radar) surveys. [3-2-0] Prerequisite: One of MATH 152, MATH 221, MATH 223, and one of EO SC 211, CPSC 203, CPSC 210, and one of MATH 316, PHYS 312, EO SC 350, EO SC 352.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
EOSC_V 470-101	EOSC_V	470		101	Biological Oceanography	W1	A quantitative examination of processes regulating the abundance, distribution and production of phytoplankton, zooplankton, microbes and fish. Controls of primary and secondary production, ecosystem dynamics and foodwebs. [3-0-0] Prerequisite: One of EO SC 372, EO SC 373.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
EOSC_V 471-101	EOSC_V	471		101	Waves, Currents and Ocean Mixing	W1	Use of observations, theory and model results to solve physical oceanographic problems including applications to transport and mixing of pollutants or nutrients. [3-0-0] Prerequisite: EO SC 211 and one of ATSC 201, EO SC 372, GEOB 200 and one of SCIE 001, PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
EOSC_V 471-TU1	EOSC_V	471		TU1	Waves, Currents and Ocean Mixing	W1	Use of observations, theory and model results to solve physical oceanographic problems including applications to transport and mixing of pollutants or nutrients. [3-0-0] Prerequisite: EO SC 211 and one of ATSC 201, EO SC 372, GEOB 200 and one of SCIE 001, PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157.	In Person Learning	Tue	12:30 p.m. - 2:30 p.m.
EOSC_V 472-201	EOSC_V	472		201	Chemical Oceanography and Marine Geochemistry	W2	Controls on chemical composition and elemental distributions in seawater and marine sediments (including nutrient elements, dissolved gases, the carbonate system, marine organic matter, and trace metals); solution chemistry of seawater; isotopic tracers of rates and dates in marine systems; geochemical balance in the oceans. [3-0-2*] Prerequisite: EO SC 373.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
EOSC_V 473-201	EOSC_V	473		201	Methods in Oceanography	W2	Methods of data acquisition, study and analysis required in solving oceanographic problems. Includes a field school held during the mid-term break. A fee is to be paid by January 31. Open to third- and fourth-year students in Oceanography, or with permission of the Department Head. [0-3-0] Prerequisite: One of EO SC 372, EO SC 373.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
EOSC_V 473-L2A	EOSC_V	473		L2A	Methods in Oceanography	W2	Methods of data acquisition, study and analysis required in solving oceanographic problems. Includes a field school held during the mid-term break. A fee is to be paid by January 31. Open to third- and fourth-year students in Oceanography, or with permission of the Department Head. [0-3-0] Prerequisite: One of EO SC 372, EO SC 373.	In Person Learning	Arranged	Arranged
EOSC_V 474-101	EOSC_V	474		101	Marine Pollution	W1	An interdisciplinary study of pollution, with examples drawn from coastal and oceanic environments, including areas of local interest. Intended for third and fourth-year students with a background in the sciences. [3-0-0] Prerequisite: Third-year standing in Science.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
EOSC_V 475-101	EOSC_V	475		101	Marine Microbiology	W1	Advanced biology, ecology and diversity of marine microbes. Emphasis on the roles of bacteria and viruses in marine foodwebs and geochemical cycles. [3-0-0] Prerequisite: A minimum of 6 credits of third-year level life science courses.	In Person Learning	Arranged	Arranged
EOSC_V 475-201	EOSC_V	475		201	Marine Microbiology	W2	Advanced biology, ecology and diversity of marine microbes. Emphasis on the roles of bacteria and viruses in marine foodwebs and geochemical cycles. [3-0-0] Prerequisite: A minimum of 6 credits of third-year level life science courses.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
EOSC_V 478-101	EOSC_V	478		101	Introduction to Fisheries Science	W1	An introduction to the ecology and management of freshwater and marine fisheries. Topics include: population dynamics, species interactions, communities, environmental influences, stock assessment, economics and sociology of fisheries. Laboratories will consist of numerical analyses and simulations. [2-0-3]	In Person Learning	Arranged	Arranged

EOSC_V 478-201	EOSC_V	478	201	Introduction to Fisheries Science	W2	An introduction to the ecology and management of freshwater and marine fisheries. Topics include: population dynamics, species interactions, communities, environmental influences, stock assessment, economics and sociology of fisheries. Laboratories will consist of numerical analyses and simulations. [2-0-3]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
EOSC_V 498-101	EOSC_V	498	101	Co-operative Work Placement III	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following third year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 498-201	EOSC_V	498	201	Co-operative Work Placement III	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following third year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 499-101	EOSC_V	499	101	Co-operative Work Placement IV	W1	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 499-201	EOSC_V	499	201	Co-operative Work Placement IV	W2	Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 510-101	EOSC_V	510	101	Data Analysis in Atmospheric, Earth and Ocean Sciences	W1	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
EOSC_V 512-101	EOSC_V	512	101	Advanced Geophysical Fluid Dynamics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 512-201	EOSC_V	512	201	Advanced Geophysical Fluid Dynamics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 514-201	EOSC_V	514	201	Introduction to Geological Fluid Mechanics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 515-101	EOSC_V	515	101	Graduate Seminar Course	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 515-201	EOSC_V	515	201	Graduate Seminar Course	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 516-101	EOSC_V	516	101	Teaching and Learning in Earth, Ocean and Atmospheric Sciences	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 518-201	EOSC_V	518	201	Science Communication and Outreach in Museum and Other Informal Learning Settings	W2	Theory and best practices for effective science communication in informal learning environments; common obstacles in communicating science to children and adults; design and rhetorical theory in the context of outreach development and communication; presentation of scientific phenomena to the public. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EOSC_V 520-101	EOSC_V	520	101	Advanced Mineralogy	W1	Crystal structure, chemistry, origin and paragenesis of major rock-forming and ore minerals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 520-201	EOSC_V	520	201	Advanced Mineralogy	W2	Crystal structure, chemistry, origin and paragenesis of major rock-forming and ore minerals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 523-101	EOSC_V	523	101	Isotope Geology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 525-201	EOSC_V	525	201	Magmatic Ore Deposits	W2	Magmatic ore deposits and associated ore-forming systems with a focus on the petrology and geochemistry of mineralized intrusions and volcanic rocks. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 526-201	EOSC_V	526	201	Mechanics of Natural Deformation	W2	Lectures and laboratory problems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 527-201	EOSC_V	527	201	Instrumentation and Monitoring in Geological Engineering Practice	W2	Investigative versus performance monitoring. Monitoring requirements, limitations and system support. Tactical versus strategic monitoring. Data analysis, utilization and communication. Integration of monitoring with geotechnical and groundwater modelling. Case histories. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EOSC_V 529-201	EOSC_V	529	201	Topics in Geohazard Risk Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
EOSC_V 532-201	EOSC_V	532	201	Field Laboratory in Groundwater Hydrology	W2	Hydraulic head measurements, water-quality sampling, pump and slug testing, infiltration measurements, profiling techniques. Computer analysis of field data. Held after spring term at the Richmond groundwater hydrology field site. Enrollment limitations. This course is not eligible for Credit/D/Fail grading. Prerequisite: [EOSC533]	In Person Learning	Arranged	Arranged

EOSC_V 533-101	EOSC_V	533	101	Groundwater Modelling in Practice	W1	Models of steady-state and transient groundwater flow in the saturated and unsaturated zones; applications to regional groundwater flow, groundwater recharge, subsurface contributions to streamflow, aquifer evaluation; model calibration. Case histories. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EOSC_V 534-201	EOSC_V	534	201	Geological Engineering: Soils and Weak Rocks	W2	Consult the credit exclusion list in the Faculty of Science section of the Calendar. <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
EOSC_V 534-L1A	EOSC_V	534	L1A	Geological Engineering: Soils and Weak Rocks	W2	Consult the credit exclusion list in the Faculty of Science section of the Calendar. <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 534-L2A	EOSC_V	534	L2A	Geological Engineering: Soils and Weak Rocks	W2	Consult the credit exclusion list in the Faculty of Science section of the Calendar. <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 536-101	EOSC_V	536	101	Geotechnical Modelling in Practice	W2	Application of geomechanics and engineering design tools in complex geological environments. Influence and treatment of geological uncertainty; use of field data, geotechnical monitoring and numerical analyses for tunnelling, mining and rock slope engineering projects. Case histories. See credit exclusion list <a href="http://www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	2:00 p.m. - 4:00 p.m.
EOSC_V 536-201	EOSC_V	536	201	Geotechnical Modelling in Practice	W2	Application of geomechanics and engineering design tools in complex geological environments. Influence and treatment of geological uncertainty; use of field data, geotechnical monitoring and numerical analyses for tunnelling, mining and rock slope engineering projects. Case histories. See credit exclusion list <a href="http://www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 541-201	EOSC_V	541	201	Multi-component Reactive Transport Modelling in Groundwater	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Either(a) EOSC 430 or (b) EOSC 540, and EOSC 533.	In Person Learning	Arranged	Arranged
EOSC_V 542-101	EOSC_V	542	101	Advanced Volcanology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 543-B_101	EOSC_V	543	B_101	Topics in Solid Earth Sciences	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 543-B_T01	EOSC_V	543	B_T01	Topics in Solid Earth Sciences	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 545-101	EOSC_V	545	101	Advanced Models in Mineral Deposits	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 545-201	EOSC_V	545	201	Advanced Models in Mineral Deposits	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 546-101	EOSC_V	546	101	Advanced Field Methods in Earth Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 548-A_20	EOSC_V	548	A_20	Graduating Paper for Masters Candidates without Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 548-B_001	EOSC_V	548	B_001	Graduating Paper for Masters Candidates without Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 548-B_201	EOSC_V	548	B_201	Graduating Paper for Masters Candidates without Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 549-A_001	EOSC_V	549	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 549-A_101	EOSC_V	549	A_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 549-A_201	EOSC_V	549	A_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 549-B_001	EOSC_V	549	B_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 549-B_101	EOSC_V	549	B_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

EOSC_V 549-B_201	EOSC_V	549	B	B_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 555-B_101	EOSC_V	555	B	B_101	Nonlinear Inverse Theory	W1	Model construction, appraisal of nonuniqueness, and inference in nonlinear problems. Stochastic inverses, constrained optimization, joint inversions and image processing. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	3:00 p.m. - 4:30 p.m.
EOSC_V 555-B_201	EOSC_V	555	B	B_201	Nonlinear Inverse Theory	W2	Model construction, appraisal of nonuniqueness, and inference in nonlinear problems. Stochastic inverses, constrained optimization, joint inversions and image processing. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
EOSC_V 556-B_201	EOSC_V	556	B	B_201	Studies in Applied Geophysics	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
EOSC_V 573-201	EOSC_V	573		201	Methods in Oceanography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
EOSC_V 573-L1A	EOSC_V	573		L1A	Methods in Oceanography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 573-L2A	EOSC_V	573		L2A	Methods in Oceanography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 575-101	EOSC_V	575		101	The Biology and Ecology of Marine Zooplanktonic Organisms	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 579-201	EOSC_V	579		201	Dynamic Oceanography	W2	Consult the Credit Exclusion List in the Faculty of Science section of the Calendar. This course is not eligible for Credit/D/Fail grading. Prerequisite: EOSC 512.	In Person Learning	Arranged	Arranged
EOSC_V 584-B_001	EOSC_V	584	B	B_001	Topics in Biological Oceanography	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 584-B_101	EOSC_V	584	B	B_101	Topics in Biological Oceanography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 584-B_102	EOSC_V	584	B	B_102	Topics in Biological Oceanography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-A_101	EOSC_V	595	A	A_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-A_102	EOSC_V	595	A	A_102	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-A_201	EOSC_V	595	A	A_201	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-B_101	EOSC_V	595	B	B_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-C_201	EOSC_V	595	C	C_201	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-D_101	EOSC_V	595	D	D_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-E_201	EOSC_V	595	E	E_201	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-F_101	EOSC_V	595	F	F_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-F_201	EOSC_V	595	F	F_201	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
EOSC_V 595-G_101	EOSC_V	595	G	G_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

EOSC_V 595-H_101	EOSC_V	595	H	H_101	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 595-S_101	EOSC_V	595	S	S_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 598-001	EOSC_V	598		001	M.Eng. Graduating Paper	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 598-101	EOSC_V	598		101	M.Eng. Graduating Paper	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 598-201	EOSC_V	598		201	M.Eng. Graduating Paper	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 599-A_001	EOSC_V	599	A	A_001	Thesis	W1-2	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 599-B_001	EOSC_V	599	B	B_001	Thesis	W1-2	For M.A.Sc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EOSC_V 649-001	EOSC_V	649		001	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
EOSC_V 649-002	EOSC_V	649		002	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
EOSC_V 649-101	EOSC_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
EOSC_V 649-201	EOSC_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
EOSC_V 699-001	EOSC_V	699		001	Doctoral Dissertation	W1-2	For Ph.D. (Engineering).	In Person Learning	Arranged	Arranged
EOSC_V 699-101	EOSC_V	699		101	Doctoral Dissertation	W1	For Ph.D. (Engineering).	In Person Learning	Arranged	Arranged
EOSC_V 699-201	EOSC_V	699		201	Doctoral Dissertation	W2	For Ph.D. (Engineering).	In Person Learning	Arranged	Arranged
EPSE_V 301-074	EPSE_V	301		074	Introduction to Educational Psychology	W1	[3-0]	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EPSE_V 303-63A	EPSE_V	303		63A	Teaching Highly Able Learners	W1	Identification and appraisal of developmental and educational needs of highly able learners. [3-0]	Online Learning	Arranged	Arranged
EPSE_V 303-63B	EPSE_V	303		63B	Teaching Highly Able Learners	W1	Identification and appraisal of developmental and educational needs of highly able learners. [3-0]	Online Learning	Arranged	Arranged
EPSE_V 308-001	EPSE_V	308		001	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:00 a.m. - 10:30 a.m.
EPSE_V 308-002	EPSE_V	308		002	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 10:30 a.m.
EPSE_V 308-003	EPSE_V	308		003	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 3:00 p.m.
EPSE_V 308-101	EPSE_V	308		101	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:30 p.m. - 3:00 p.m.
EPSE_V 308-102	EPSE_V	308		102	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 12:00 p.m.
EPSE_V 308-103	EPSE_V	308		103	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 12:00 p.m.



EPSE_V 308-S09	EPSE_V	308		S09	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue (Alternate weeks)	11:00 a.m. - 12:30 p.m.
EPSE_V 308-S10	EPSE_V	308		S10	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 12:00 p.m.
EPSE_V 308-S40	EPSE_V	308		S40	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 308-S41	EPSE_V	308		S41	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 308-S50	EPSE_V	308		S50	Development, Learning and Culture in the Classroom	W1	This course is designed to provide teacher candidates with a broad overview of how children develop, learn and grow in diverse societies, in order to build safe, supportive, caring and respectful relationships and environments. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 310-A_101	EPSE_V	310	A	A_101	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
EPSE_V 310-A_102	EPSE_V	310	A	A_102	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 9:00 a.m.
EPSE_V 310-A_103	EPSE_V	310	A	A_103	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 9:00 a.m.
EPSE_V 310-A_104	EPSE_V	310	A	A_104	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
EPSE_V 310-A_105	EPSE_V	310	A	A_105	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 9:00 a.m.
EPSE_V 310-A_107	EPSE_V	310	A	A_107	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 9:00 a.m.
EPSE_V 310-A_108	EPSE_V	310	A	A_108	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
EPSE_V 310-A_109	EPSE_V	310	A	A_109	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
EPSE_V 310-A_110	EPSE_V	310	A	A_110	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
EPSE_V 310-A_640	EPSE_V	310	A	A_640	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 310-A_S01	EPSE_V	310	A	A_S01	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 4:30 p.m.
EPSE_V 310-A_S02	EPSE_V	310	A	A_S02	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:30 a.m.
EPSE_V 310-A_S03	EPSE_V	310	A	A_S03	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:30 a.m.
EPSE_V 310-A_S04	EPSE_V	310	A	A_S04	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:00 p.m. - 4:30 p.m.
EPSE_V 310-A_S05	EPSE_V	310	A	A_S05	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 10:30 a.m.
EPSE_V 310-A_S07	EPSE_V	310	A	A_S07	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:30 a.m.
EPSE_V 310-A_S08	EPSE_V	310	A	A_S08	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 10:30 a.m.
EPSE_V 310-A_S09	EPSE_V	310	A	A_S09	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.

EPSE_V 310-A_S10	EPSE_V	310	A	A_S10	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:00 p.m. - 4:30 p.m.
EPSE_V 310-A_S40	EPSE_V	310	A	A_S40	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 310-B_001	EPSE_V	310	B	B_001	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
EPSE_V 310-B_002	EPSE_V	310	B	B_002	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
EPSE_V 310-B_301	EPSE_V	310	B	B_301	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
EPSE_V 310-B_302	EPSE_V	310	B	B_302	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
EPSE_V 310-B_303	EPSE_V	310	B	B_303	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
EPSE_V 310-B_304	EPSE_V	310	B	B_304	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
EPSE_V 310-B_305	EPSE_V	310	B	B_305	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
EPSE_V 310-B_306	EPSE_V	310	B	B_306	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
EPSE_V 310-B_307	EPSE_V	310	B	B_307	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
EPSE_V 310-B_308	EPSE_V	310	B	B_308	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
EPSE_V 310-B_309	EPSE_V	310	B	B_309	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
EPSE_V 310-B_310	EPSE_V	310	B	B_310	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
EPSE_V 310-B_640	EPSE_V	310	B	B_640	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 310-B_S40	EPSE_V	310	B	B_S40	Assessment and Learning in the Classroom	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 312-074	EPSE_V	312		074	Introduction to the Study of Exceptional Children	W1	An examination of all groups of exceptional children in terms of definition, incidence, characteristics, diagnosis and treatment. Prerequisite to most other courses in Special Education. Can be taken concurrently with several other introductory courses in Special Education. [3-0]	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 316-075	EPSE_V	316		075	Learning Disabilities	W2	Identification, assessment and needs of children with learning disabilities. Recommended prerequisites: one of EPSE 312, EPSE 317. [3-0-0]	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EPSE_V 317-63C	EPSE_V	317		63C	Development and Exceptionality in the Regular Classroom	W2	The teacher's role in dealing with major developmental and special educational issues and problems within the regular classroom program, including working with supportive services, parents, and communities. Designated sections will focus on early childhood, middle childhood or adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0]	Online Learning	Arranged	Arranged
EPSE_V 317-640	EPSE_V	317		640	Development and Exceptionality in the Regular Classroom	W2	The teacher's role in dealing with major developmental and special educational issues and problems within the regular classroom program, including working with supportive services, parents, and communities. Designated sections will focus on early childhood, middle childhood or adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
EPSE_V 317-641	EPSE_V	317		641	Development and Exceptionality in the Regular Classroom	W2	The teacher's role in dealing with major developmental and special educational issues and problems within the regular classroom program, including working with supportive services, parents, and communities. Designated sections will focus on early childhood, middle childhood or adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
EPSE_V 320-63A	EPSE_V	320		63A	Classroom Inclusion of Students who are Blind and Visually Impaired	W1	Inclusion issues of students with visual impairments in general education classrooms; information about visual impairment, classroom adaptations and accommodations, and application of Universal Design. Appropriate for education majors and classroom teachers. [3-0]	Online Learning	Arranged	Arranged

EPSE_V 320-63C	EPSE_V	320	63C	Classroom Inclusion of Students who are Blind and Visually Impaired	W2	Inclusion issues of students with visual impairments in general education classrooms; information about visual impairment, classroom adaptations and accommodations, and application of Universal Design. Appropriate for education majors and classroom teachers. [3-0]	Online Learning	Arranged	Arranged	
EPSE_V 348-63A	EPSE_V	348	63A	Family-Centred Practice for Children with Special Needs	W1		Online Learning	Arranged	Arranged	
EPSE_V 348-63C	EPSE_V	348	63C	Family-Centred Practice for Children with Special Needs	W2		Online Learning	Arranged	Arranged	
EPSE_V 390-A_010	EPSE_V	390	A	A_010	Special Topics	W1	A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0]	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
EPSE_V 390-A_63C	EPSE_V	390	A	A_63C	Special Topics	W2	A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0]	Online Learning	Arranged	Arranged
EPSE_V 403-63A	EPSE_V	403	63A	Education of Students with Developmental Disabilities in Inclusive Settings	W1	[3-0]	Online Learning	Arranged	Arranged	
EPSE_V 403-63B	EPSE_V	403	63B	Education of Students with Developmental Disabilities in Inclusive Settings	W1	[3-0]	Online Learning	Arranged	Arranged	
EPSE_V 403-63D	EPSE_V	403	63D	Education of Students with Developmental Disabilities in Inclusive Settings	W2	[3-0]	Online Learning	Arranged	Arranged	
EPSE_V 403-63E	EPSE_V	403	63E	Education of Students with Developmental Disabilities in Inclusive Settings	W2	[3-0]	Online Learning	Arranged	Arranged	
EPSE_V 403-63F	EPSE_V	403	63F	Education of Students with Developmental Disabilities in Inclusive Settings	W2	[3-0]	Online Learning	Arranged	Arranged	
EPSE_V 406-63A	EPSE_V	406	63A	Typical and Atypical Development in Infants and Children	W1		Online Learning	Arranged	Arranged	
EPSE_V 406-63B	EPSE_V	406	63B	Typical and Atypical Development in Infants and Children	W1		Online Learning	Arranged	Arranged	
EPSE_V 406-63C	EPSE_V	406	63C	Typical and Atypical Development in Infants and Children	W1		Online Learning	Arranged	Arranged	
EPSE_V 406-63D	EPSE_V	406	63D	Typical and Atypical Development in Infants and Children	W2		Online Learning	Arranged	Arranged	
EPSE_V 406-63E	EPSE_V	406	63E	Typical and Atypical Development in Infants and Children	W2		Online Learning	Arranged	Arranged	
EPSE_V 406-63F	EPSE_V	406	63F	Typical and Atypical Development in Infants and Children	W2		In Person Learning	Arranged	Arranged	
EPSE_V 408-63C	EPSE_V	408	63C	Educational Programming for Highly Able Learners	W2	Planning elementary and secondary level programs for highly able learners. [3-0]	Online Learning	Arranged	Arranged	
EPSE_V 408-63D	EPSE_V	408	63D	Educational Programming for Highly Able Learners	W2	Planning elementary and secondary level programs for highly able learners. [3-0]	Online Learning	Arranged	Arranged	
EPSE_V 411-074	EPSE_V	411	074	Augmentative and Alternative Communication for Individuals with Severe Speech and/or Physical Impairments	W2	[3-0-0]	Online Learning	Thu	4:30 p.m. - 7:30 p.m.	
EPSE_V 421-074	EPSE_V	421	074	Assessment of Learning Difficulties	W1	Theories of learning and instruction; principles and practices of diagnosis and assessment as these relate to students with relevant special needs.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.	
EPSE_V 426-63C	EPSE_V	426	63C	Introduction to the Education of students Who are Deaf or Hard of Hearing	W2	An introductory course focused on supporting the educational and social goals of students who are d/Deaf or hard of hearing.	Online Learning	Arranged	Arranged	
EPSE_V 431-074	EPSE_V	431	074	Programming for Children with Specific Learning Disabilities	W1	Methods and programs for learning disabilities are reviewed. Practical experience in the development and execution of a remedial program is required. [3-0] Prerequisite: [EPSE316]	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.	
EPSE_V 432-63C	EPSE_V	432	63C	Classroom Management	W2	[3-0-0]	Online Learning	Arranged	Arranged	

EPSE_V 436-074	EPSE_V	436	074	Survey of Behaviour Disorders in Children and Adolescents	W1	[3-0]		In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 437-074	EPSE_V	437	074	Interventions for Children and Adolescents with Behaviour Disorders	W2	[3-0-0]		In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 449-63A	EPSE_V	449	63A	Education of Students with Autism	W1	[3-0]		Online Learning	Arranged	Arranged
EPSE_V 449-63B	EPSE_V	449	63B	Education of Students with Autism	W1	[3-0]		Online Learning	Arranged	Arranged
EPSE_V 449-63C	EPSE_V	449	63C	Education of Students with Autism	W1	[3-0]		Online Learning	Arranged	Arranged
EPSE_V 449-63D	EPSE_V	449	63D	Education of Students with Autism	W2	[3-0]		Online Learning	Arranged	Arranged
EPSE_V 449-63E	EPSE_V	449	63E	Education of Students with Autism	W2	[3-0]		Online Learning	Arranged	Arranged
EPSE_V 449-63F	EPSE_V	449	63F	Education of Students with Autism	W2	[3-0]		Online Learning	Arranged	Arranged
EPSE_V 462-074	EPSE_V	462	074	Human Development in Education	W2		Investigates selected concepts of developmental theory in terms of their influence upon teaching and learning. The course will explore development in a wide range of domains including: social, physical, emotional and cognitive development.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
EPSE_V 481-074	EPSE_V	481	074	Introduction to Research in Education	W2		The nature of scientific study and essentials of survey, experimental and other empirical research designs. Designed for students proceeding to graduate work. Prerequisite: EPSE 482 must be taken prior to or at the same time as EPSE 481.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 482-074	EPSE_V	482	074	Introduction to Statistics for Research in Education	W1		Basic concepts and principles of descriptive and inferential statistics. Designed for students proceeding to graduate work involving quantitative methodology. [3-0] Prerequisite: Proficiency in modern high school algebra. Equivalency: STAT 200, 203, BIOL 300, COMM 191, ECON 325, 327, FRST 231, GEOG 374, KIN 371, POIJ 380, PSYC 218, 27, 366, SOCI 328	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 482-075	EPSE_V	482	075	Introduction to Statistics for Research in Education	W2		Basic concepts and principles of descriptive and inferential statistics. Designed for students proceeding to graduate work involving quantitative methodology. [3-0] Prerequisite: Proficiency in modern high school algebra. Equivalency: STAT 200, 203, BIOL 300, COMM 191, ECON 325, 327, FRST 231, GEOG 374, KIN 371, POIJ 380, PSYC 218, 27, 366, SOCI 328	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 483-63A	EPSE_V	483	63A	Reading and Interpreting Research in Education	W1		Introductory research methods course for students who wish to be critical readers rather than producers of educational research. Develops skills for locating, understanding, interpreting and critiquing educational empirical research. May not be used as a prerequisite to EPSE 592 or EPSE 596. [3-0] Prerequisite: Please consult the Faculty of Science Credit Exclusion Lists <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> before registering.	Online Learning	Arranged	Arranged
EPSE_V 501-074	EPSE_V	501	074	Seminar in Human Development, Learning and Culture	W1		This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 503-075	EPSE_V	503	075	Cultural Perspectives on Learning, Development and Media	W2		This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EPSE_V 505-075	EPSE_V	505	075	Foundations in Human Development: Infancy to Adulthood	W2		This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EPSE_V 506-075	EPSE_V	506	075	Applied Psychopathology Across the Lifespan	W1		This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EPSE_V 512-074	EPSE_V	512	074	Critical Issues in Special Education	W1		This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 512-075	EPSE_V	512	075	Critical Issues in Special Education	W2		This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 515-A_075	EPSE_V	515	A	A_075	W2		Building Supportive School and Community Environments to Prevent Problem Behaviour	In Person Learning	Arranged	Arranged
EPSE_V 517-075	EPSE_V	517	075	Acoustic and Physical Environments in the Classroom	W1		Evidence-based primary and secondary prevention approaches and practices that aim to prevent the development of behaviour disorders in children and youth. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged

EPSE_V 519-074	EPSE_V	519		074	Language Acquisition By and Evaluation of Learners Who Are Deaf and Hard of Hearing	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 524-C_074	EPSE_V	524	C	C_074	Practicum and Seminar in the Education of Learners Who Are Deaf and Hard of Hearing	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 525-074	EPSE_V	525		074	Dual Language Approaches to Instruction with Learners Who Are Deaf and Hard of Hearing	W1	This course is not eligible for Credit/D/Fail grading. [3-0]	Online Learning	Arranged	Arranged
EPSE_V 526-074	EPSE_V	526		074	Seminar in Specific Learning Disabilities	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	4:30 p.m. - 7:30 p.m.
EPSE_V 528-075	EPSE_V	528		075	Basic Principles of Measurement	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 482.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EPSE_V 528-076	EPSE_V	528		076	Basic Principles of Measurement	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 482.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
EPSE_V 529-074	EPSE_V	529		074	Development of Scales and Measures	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: [EPSE528]	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 531-074	EPSE_V	531		074	Data-Based Individualization of Academic Interventions for Learning Difficulties	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 534-074	EPSE_V	534		074	Academic Assessment	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EPSE_V 535-074	EPSE_V	535		074	Social and Emotional Assessment	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 537-074	EPSE_V	537		074	Programming in Orientation and Mobility	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 538-075	EPSE_V	538		075	Seminar in Orientation and Mobility for the Blind	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 539-075	EPSE_V	539		075	Research Issues and Trends in the Education of Students with Visual Impairments	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 543-074	EPSE_V	543		074	Working with Students with Visual Impairments: Elementary and Secondary Curriculum	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 546-075	EPSE_V	546		075	Assistive Technology for Teachers of Students with Visual Impairments	W1	Credit will be granted for only one of EPSE 415 or EPSE 546. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 549-074	EPSE_V	549		074	Seminar in Autism	W2	Recommended pre-requisite: EPSE 449. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 550-074	EPSE_V	550		074	Professional, Ethical and Legal Issues in School and Applied Child Psychology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
EPSE_V 551-A_074	EPSE_V	551	A	A_074	School-based Consultation	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: CNP551	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
EPSE_V 553-074	EPSE_V	553		074	Theories of Cognitive and Affective Abilities	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
EPSE_V 556-075	EPSE_V	556		075	Cognitive and Academic Assessment Practicum	W2	Admission to the SACP MA or PhD program or the CNPS PhD Program required. This course is not eligible for Credit/D/Fail grading. Corequisite: All of EPSE 528, EPSE 553.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
EPSE_V 557-074	EPSE_V	557		074	Social and Emotional Interventions with Children and Youth	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CNPS 362, EPSE 552 and one of EPSE 506, CNPS 535.	In Person Learning	Arranged	Arranged
EPSE_V 560-A_074	EPSE_V	560	A	A_074	Laboratory in School and Applied Child Psychology	W1	Pass/Fail. Admission to the SACP program required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 560-A_075	EPSE_V	560	A	A_075	Laboratory in School and Applied Child Psychology	W2	Pass/Fail. Admission to the SACP program required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 3:00 p.m.

EPSE_V 560-A_076	EPSE_V	560	A	A_076	Laboratory in School and Applied Child Psychology	W2	Pass/Fail. Admission to the SACP program required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 6:00 p.m.
EPSE_V 561-F_075	EPSE_V	561	F	F_075	Laboratory Practicum	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EPSE_V 561-F_076	EPSE_V	561	F	F_076	Laboratory Practicum	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EPSE_V 561-F_077	EPSE_V	561	F	F_077	Laboratory Practicum	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EPSE_V 562-074	EPSE_V	562		074	Designing Inclusive Learning Communities: From Theory to Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 563-075	EPSE_V	563		075	Inclusive Assessment and Programming for Students Requiring Targeted Supports	W2	This course is not eligible for Credit/D/Fail grading. Corequisite: All of EPSE 512, EPSE 562.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 565-A_075	EPSE_V	565	A	A_075	Special Course in Subject Matter Field	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 572-074	EPSE_V	572		074	Applications of Behaviour Analysis	W1	Philosophical underpinnings and applications of behaviour analytic principles to daily life. This course is not eligible for Credit/D/Fail grading. Corequisite: EPSE 574.	In Person Learning	Arranged	Arranged
EPSE_V 574-074	EPSE_V	574		074	Principles of Behaviour Analysis	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 575-074	EPSE_V	575		074	Seminar in Instructional Methods for Persons with Significant Learning Challenges	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 576-074	EPSE_V	576		074	Assessment and Positive Behaviour Support in School and Community Settings	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 577-075	EPSE_V	577		075	Seminar in Assessment and Positive Behaviour Support in School and Community Settings	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 576.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 578-075	EPSE_V	578		075	Ethics for Behaviour Analysts	W2	Knowledge of the ethical principles, standards, and practices consistent with the role of an applied behaviour analyst. Application of ethical reasoning in applied behaviour analytic work with children, youth, and adults in home, school, and community settings will be emphasized. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EPSE 572, EPSE 574.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 580-A_074	EPSE_V	580	A	A_074	Investigation and Report of a Problem in Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 580-A_075	EPSE_V	580	A	A_075	Investigation and Report of a Problem in Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 580-B_074	EPSE_V	580	B	B_074	Investigation and Report of a Problem in Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 580-B_075	EPSE_V	580	B	B_075	Investigation and Report of a Problem in Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 580-D_074	EPSE_V	580	D	D_074	Investigation and Report of a Problem in Education	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 581-A_075	EPSE_V	581	A	A_075	Special Topics in Measurement, Evaluation, and Research Methodology	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Courses appropriate to a specific special topic may be required.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EPSE_V 583-074	EPSE_V	583		074	Fostering Self-Regulated Learning	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 584-074	EPSE_V	584		074	Motivation in Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
EPSE_V 585-074	EPSE_V	585		074	Social and Emotional Development in Education	W1	Recommended pre-requisite: EPSE 505. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	4:30 p.m. - 7:30 p.m.

EPSE_V 588-074	EPSE_V	588	074	Indigenous Pathways Through Social and Emotional Learning	W2	An exploration of Indigenous knowledges and methodologies in social and emotional learning. This course is not eligible for Credit/D/Fail grading. Prerequisite: A graduate course in SEL and/or a graduate level course in Indigenous Knowledge/Methods.	Online Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 589-D_075	EPSE_V	589	D_075	Master's Internship in School and Applied Child Psychology	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students in the School and Applied Child Psychology Master's Program.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EPSE_V 590-077	EPSE_V	590	077	Graduating Paper/Seminar	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
EPSE_V 592-074	EPSE_V	592	074	Experimental Designs and Analysis in Educational Research	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: [EPSE482] EPSE 483 may not be used as a prerequisite to EPSE 592.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
EPSE_V 592-090	EPSE_V	592	090	Experimental Designs and Analysis in Educational Research	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: [EPSE482] EPSE 483 may not be used as a prerequisite to EPSE 592.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 593-074	EPSE_V	593	074	Design and Analysis of Research with Small Samples and Single Subjects	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 595-074	EPSE_V	595	074	Qualitative Research Methods	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
EPSE_V 595-075	EPSE_V	595	075	Qualitative Research Methods	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
EPSE_V 596-074	EPSE_V	596	074	Correlational Designs and Analysis in Educational Research	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 482. EPSE 483 may not be used as a prerequisite.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EPSE_V 596-090	EPSE_V	596	090	Correlational Designs and Analysis in Educational Research	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 482. EPSE 483 may not be used as a prerequisite.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
EPSE_V 597-075	EPSE_V	597	075	Structural Equation Modelling and Factor Analysis	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: [EPSE596]	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
EPSE_V 598-A_075	EPSE_V	598	A_075	Field Experiences	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 598-A_076	EPSE_V	598	A_076	Field Experiences	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 598-B_076	EPSE_V	598	B_076	Field Experiences	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 598-V_075	EPSE_V	598	V_075	Field Experiences	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 598-V_076	EPSE_V	598	V_076	Field Experiences	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 599-A_073	EPSE_V	599	A_073	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 604-A_074	EPSE_V	604	A_074	Advanced Topics in Human Development, Learning, and Culture	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
EPSE_V 606-075	EPSE_V	606	075	College and University Teaching	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
EPSE_V 631-A_074	EPSE_V	631	A_074	Professional Seminar in School and Applied Child Psychology	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the SACP Ph.D. program required.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
EPSE_V 633-074	EPSE_V	633	074	Community-Based Services	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
EPSE_V 635-A_074	EPSE_V	635	A_074	Special Topics in Advanced Intervention in School and Applied Child Psychology	W2	Admission to the SACP Ph.D. program required. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CNPS 362, EPSE 552, EPSE 557.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
EPSE_V 661-D_075	EPSE_V	661	D_075	Doctoral Practicum in School and Applied Child Psychology	W1-2	Pass/fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 561. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.

EPSE_V 661-D_076	EPSE_V	661	D	D_076	Doctoral Practicum in School and Applied Child Psychology	W1-2	Pass/fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 561. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EPSE_V 661-D_077	EPSE_V	661	D	D_077	Doctoral Practicum in School and Applied Child Psychology	W1-2	Pass/fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 561. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EPSE_V 681-A_075	EPSE_V	681	A	A_075	Advanced Topics in Measurement, Evaluation, and Research	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Courses appropriate to a specific advanced topic may be required.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
EPSE_V 683-075	EPSE_V	683		075	Hierarchical Linear Modelling, Growth and Change	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EPSE 592, EPSE 596.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
EPSE_V 687-A_PH4	EPSE_V	687	A	A_PH4	Doctoral Practicum In School and Applied Child or Counselling Psychology	W1	Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the School and Applied Child Psychology or Counselling Psychology Ph.D. Program.	In Person Learning	Arranged	Arranged
EPSE_V 687-A_PH5	EPSE_V	687	A	A_PH5	Doctoral Practicum In School and Applied Child or Counselling Psychology	W2	Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the School and Applied Child Psychology or Counselling Psychology Ph.D. Program.	In Person Learning	Arranged	Arranged
EPSE_V 687-A_PH6	EPSE_V	687	A	A_PH6	Doctoral Practicum In School and Applied Child or Counselling Psychology	W1-2	Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the School and Applied Child Psychology or Counselling Psychology Ph.D. Program.	In Person Learning	Arranged	Arranged
EPSE_V 687-B_075	EPSE_V	687	B	B_075	Doctoral Practicum In School and Applied Child or Counselling Psychology	W1-2	Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the School and Applied Child Psychology or Counselling Psychology Ph.D. Program.	In Person Learning	Arranged	Arranged
EPSE_V 687-C_PH7	EPSE_V	687	C	C_PH7	Doctoral Practicum In School and Applied Child or Counselling Psychology	W1-2	Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the School and Applied Child Psychology or Counselling Psychology Ph.D. Program.	In Person Learning	Arranged	Arranged
EPSE_V 687-D_077	EPSE_V	687	D	D_077	Doctoral Practicum In School and Applied Child or Counselling Psychology	W1-2	Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the School and Applied Child Psychology or Counselling Psychology Ph.D. Program.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
EPSE_V 688-A_073	EPSE_V	688	A	A_073	Seminar in Supervision of School and Applied Child Psychology Practice	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students in the School and Applied Child Psychology Ph.D. Program Corequisite: EPSE 661.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
EPSE_V 689-A_075	EPSE_V	689	A	A_075	Pre-Doctoral Internship in School and Applied Child Psychology	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students in the School and Applied Child Psychology Ph.D. Program.	In Person Learning	Arranged	Arranged
EPSE_V 699-074	EPSE_V	699		074	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
EPSE_V 699-075	EPSE_V	699		075	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged
EPSE_V 699-076	EPSE_V	699		076	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged
ETEC_V 500-64A	ETEC_V	500		64A	Research Methodology in Education	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 500-64B	ETEC_V	500		64B	Research Methodology in Education	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 500-65A	ETEC_V	500		65A	Research Methodology in Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 500-65B	ETEC_V	500		65B	Research Methodology in Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 510-64A	ETEC_V	510		64A	Design of Technology-Supported Learning Environments	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 510-64B	ETEC_V	510		64B	Design of Technology-Supported Learning Environments	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 510-65A	ETEC_V	510		65A	Design of Technology-Supported Learning Environments	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 510-65B	ETEC_V	510		65B	Design of Technology-Supported Learning Environments	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged

ETEC_V 511-64A	ETEC_V	511	64A	New Foundations of Educational Technology	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 511-64B	ETEC_V	511	64B	New Foundations of Educational Technology	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 511-65A	ETEC_V	511	65A	New Foundations of Educational Technology	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 511-65B	ETEC_V	511	65B	New Foundations of Educational Technology	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 512-64A	ETEC_V	512	64A	Applications of Learning Theories to the Analysis of Instructional Settings	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 512-64B	ETEC_V	512	64B	Applications of Learning Theories to the Analysis of Instructional Settings	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 512-65A	ETEC_V	512	65A	Applications of Learning Theories to the Analysis of Instructional Settings	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 512-65B	ETEC_V	512	65B	Applications of Learning Theories to the Analysis of Instructional Settings	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 520-64A	ETEC_V	520	64A	Planning and Managing eLearning	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 520-65A	ETEC_V	520	65A	Planning and Managing eLearning	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 521-61A	ETEC_V	521	61A	Indigeneity, Technology, and Education	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 521-64A	ETEC_V	521	64A	Indigeneity, Technology, and Education	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 521-65A	ETEC_V	521	65A	Indigeneity, Technology, and Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 522-64A	ETEC_V	522	64A	Ventures in Learning Technology	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 522-65A	ETEC_V	522	65A	Ventures in Learning Technology	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 523-64A	ETEC_V	523	64A	Mobile & Open Education	W1	Experimental immersion in the proven and emerging educational potentials of mobile technologies and open learning. Theory and strategy of mobile and open education through collective critical analysis of trending knowledge. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 523-65A	ETEC_V	523	65A	Mobile & Open Education	W2	Experimental immersion in the proven and emerging educational potentials of mobile technologies and open learning. Theory and strategy of mobile and open education through collective critical analysis of trending knowledge. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 524-64A	ETEC_V	524	64A	Learning Technologies: Selection, Design, and Application	W1	Theoretical frameworks to assist educators in evaluating, selecting, and using various learning technologies. Hands-on experience using a range of learning technologies and platforms, including learning and content management systems and multimedia and social media tools. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 524-65A	ETEC_V	524	65A	Learning Technologies: Selection, Design, and Application	W2	Theoretical frameworks to assist educators in evaluating, selecting, and using various learning technologies. Hands-on experience using a range of learning technologies and platforms, including learning and content management systems and multimedia and social media tools. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 530-64A	ETEC_V	530	64A	Constructivist Strategies for eLearning	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 530-65A	ETEC_V	530	65A	Constructivist Strategies for eLearning	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 531-64A	ETEC_V	531	64A	Curriculum Issues in Cultural and New Media Studies	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 531-65A	ETEC_V	531	65A	Curriculum Issues in Cultural and New Media Studies	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged

ETEC_V 532-65A	ETEC_V	532	65A	Technology in Arts and Humanities Classrooms	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 533-64A	ETEC_V	533	64A	Technology in the Mathematics and Science Classroom	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 533-65A	ETEC_V	533	65A	Technology in the Mathematics and Science Classroom	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 534-64A	ETEC_V	534	64A	Metatheory: New Materialism meets the History of Educational Media	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 540-64A	ETEC_V	540	64A	Text Technologies: The Changing Spaces of Reading and Writing	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 540-65A	ETEC_V	540	65A	Text Technologies: The Changing Spaces of Reading and Writing	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 541-64A	ETEC_V	541	64A	Energy Literacy in Society and Digital Culture	W1	Basic energy systems and technologies in the context of the cultural and social dimensions of environmental education and climate emergency—through conceptual, digital, and narrative models, as well as policy, design, and science. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 542-64A	ETEC_V	542	64A	Culture and Communication in Virtual Learning Environments	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 542-65A	ETEC_V	542	65A	Culture and Communication in Virtual Learning Environments	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 543-64A	ETEC_V	543	64A	Understanding Learning Analytics	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 543-64B	ETEC_V	543	64B	Understanding Learning Analytics	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 543-65A	ETEC_V	543	65A	Understanding Learning Analytics	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 544-61A	ETEC_V	544	61A	Digital Games & Learning	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
ETEC_V 544-64A	ETEC_V	544	64A	Digital Games & Learning	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 544-65A	ETEC_V	544	65A	Digital Games & Learning	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
ETEC_V 565-B_64A	ETEC_V	565	B	B_64A	Special Course in Subject Matter Field	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 565-C_65A	ETEC_V	565	C	C_65A	Special Course in Subject Matter Field	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 565-H_64A	ETEC_V	565	H	H_64A	Special Course in Subject Matter Field	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 565-H_65A	ETEC_V	565	H	H_65A	Special Course in Subject Matter Field	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 565-I_65A	ETEC_V	565	I	I_65A	Special Course in Subject Matter Field	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 565-M_64A	ETEC_V	565	M	M_64A	Special Course in Subject Matter Field	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 565-M_65A	ETEC_V	565	M	M_65A	Special Course in Subject Matter Field	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
ETEC_V 590-64A	ETEC_V	590	64A	Graduating Project	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	

ETEC_V 590-65A	ETEC_V	590	65A	Graduating Project	W2	This course is not eligible for Credit/D/Fall grading.	Online Learning	Arranged	Arranged
EXCH_V 101-001	EXCH_V	101	001	Canadian University Study Abroad Program (CUSAP) Exchange	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 101-101	EXCH_V	101	101	Canadian University Study Abroad Program (CUSAP) Exchange	W1		In Person Learning	Arranged	Arranged
EXCH_V 101-201	EXCH_V	101	201	Canadian University Study Abroad Program (CUSAP) Exchange	W2		In Person Learning	Arranged	Arranged
EXCH_V 370-001	EXCH_V	370	001	Student Exchange Program, Law	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 370-002	EXCH_V	370	002	Student Exchange Program, Law	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 370-003	EXCH_V	370	003	Student Exchange Program, Law	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 370-006	EXCH_V	370	006	Student Exchange Program, Law	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 370-101	EXCH_V	370	101	Student Exchange Program, Law	W1		In Person Learning	Arranged	Arranged
EXCH_V 370-106	EXCH_V	370	106	Student Exchange Program, Law	W1		In Person Learning	Arranged	Arranged
EXCH_V 370-107	EXCH_V	370	107	Student Exchange Program, Law	W1		In Person Learning	Arranged	Arranged
EXCH_V 370-108	EXCH_V	370	108	Student Exchange Program, Law	W1		In Person Learning	Arranged	Arranged
EXCH_V 370-109	EXCH_V	370	109	Student Exchange Program, Law	W1		In Person Learning	Arranged	Arranged
EXCH_V 370-121	EXCH_V	370	121	Student Exchange Program, Law	W1		In Person Learning	Arranged	Arranged
EXCH_V 370-201	EXCH_V	370	201	Student Exchange Program, Law	W2		In Person Learning	Arranged	Arranged
EXCH_V 370-202	EXCH_V	370	202	Student Exchange Program, Law	W2		In Person Learning	Arranged	Arranged
EXCH_V 370-203	EXCH_V	370	203	Student Exchange Program, Law	W2		In Person Learning	Arranged	Arranged
EXCH_V 370-204	EXCH_V	370	204	Student Exchange Program, Law	W2		In Person Learning	Arranged	Arranged
EXCH_V 370-205	EXCH_V	370	205	Student Exchange Program, Law	W2		In Person Learning	Arranged	Arranged
EXCH_V 370-206	EXCH_V	370	206	Student Exchange Program, Law	W2		In Person Learning	Arranged	Arranged
EXCH_V 371-001	EXCH_V	371	001	Student Exchange, Commerce	W1-2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-002	EXCH_V	371	002	Student Exchange, Commerce	W1-2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-003	EXCH_V	371	003	Student Exchange, Commerce	W1-2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged





EXCH_V 371-214	EXCH_V	371	214	Student Exchange, Commerce	W2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-215	EXCH_V	371	215	Student Exchange, Commerce	W2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-216	EXCH_V	371	216	Student Exchange, Commerce	W2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-217	EXCH_V	371	217	Student Exchange, Commerce	W2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-948	EXCH_V	371	948	Student Exchange, Commerce	W1-2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-953	EXCH_V	371	953	Student Exchange, Commerce	W2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 371-954	EXCH_V	371	954	Student Exchange, Commerce	W1-2	Prerequisite: second-, third-, or fourth-year standing.	In Person Learning	Arranged	Arranged
EXCH_V 372-001	EXCH_V	372	001	Student Exchange Program, Pharmacy	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 372-101	EXCH_V	372	101	Student Exchange Program, Pharmacy	W1		In Person Learning	Arranged	Arranged
EXCH_V 372-201	EXCH_V	372	201	Student Exchange Program, Pharmacy	W2		In Person Learning	Arranged	Arranged
EXCH_V 372-202	EXCH_V	372	202	Student Exchange Program, Pharmacy	W2		In Person Learning	Arranged	Arranged
EXCH_V 372-203	EXCH_V	372	203	Student Exchange Program, Pharmacy	W2		In Person Learning	Arranged	Arranged
EXCH_V 373-001	EXCH_V	373	001	Applied Science Exchange	W1-2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-002	EXCH_V	373	002	Applied Science Exchange	W1-2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-101	EXCH_V	373	101	Applied Science Exchange	W1	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-102	EXCH_V	373	102	Applied Science Exchange	W1	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-104	EXCH_V	373	104	Applied Science Exchange	W1	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-113	EXCH_V	373	113	Applied Science Exchange	W1	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-114	EXCH_V	373	114	Applied Science Exchange	W1	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-201	EXCH_V	373	201	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-202	EXCH_V	373	202	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-203	EXCH_V	373	203	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-204	EXCH_V	373	204	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged

EXCH_V 373-205	EXCH_V	373	205	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-207	EXCH_V	373	207	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-208	EXCH_V	373	208	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-211	EXCH_V	373	211	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-213	EXCH_V	373	213	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 373-214	EXCH_V	373	214	Applied Science Exchange	W2	For B.A.Sc. students on exchange.	In Person Learning	Arranged	Arranged
EXCH_V 375-001	EXCH_V	375	001	Student Exchange Program, Education	W1-2	Prerequisite: for BEDN, DEDU, BEDS, BEDE, BEDM.	In Person Learning	Arranged	Arranged
EXCH_V 375-101	EXCH_V	375	101	Student Exchange Program, Education	W1	Prerequisite: for BEDN, DEDU, BEDS, BEDE, BEDM.	In Person Learning	Arranged	Arranged
EXCH_V 375-201	EXCH_V	375	201	Student Exchange Program, Education	W2	Prerequisite: for BEDN, DEDU, BEDS, BEDE, BEDM.	In Person Learning	Arranged	Arranged
EXCH_V 380-001	EXCH_V	380	001	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-002	EXCH_V	380	002	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-003	EXCH_V	380	003	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-004	EXCH_V	380	004	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-005	EXCH_V	380	005	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-006	EXCH_V	380	006	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-008	EXCH_V	380	008	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-009	EXCH_V	380	009	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-010	EXCH_V	380	010	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-011	EXCH_V	380	011	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-012	EXCH_V	380	012	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-013	EXCH_V	380	013	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-014	EXCH_V	380	014	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 380-015	EXCH_V	380	015	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged

EXCH_V 380-017	EXCH_V	380	017	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-018	EXCH_V	380	018	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-019	EXCH_V	380	019	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-020	EXCH_V	380	020	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-021	EXCH_V	380	021	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-022	EXCH_V	380	022	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-023	EXCH_V	380	023	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-024	EXCH_V	380	024	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-029	EXCH_V	380	029	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-030	EXCH_V	380	030	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-043	EXCH_V	380	043	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-066	EXCH_V	380	066	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-067	EXCH_V	380	067	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-068	EXCH_V	380	068	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-069	EXCH_V	380	069	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-072	EXCH_V	380	072	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-100	EXCH_V	380	100	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-101	EXCH_V	380	101	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-102	EXCH_V	380	102	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-103	EXCH_V	380	103	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-104	EXCH_V	380	104	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-105	EXCH_V	380	105	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-106	EXCH_V	380	106	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged

EXCH_V 380-107	EXCH_V	380	107	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-108	EXCH_V	380	108	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-109	EXCH_V	380	109	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-110	EXCH_V	380	110	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-111	EXCH_V	380	111	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-112	EXCH_V	380	112	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-113	EXCH_V	380	113	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-114	EXCH_V	380	114	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-115	EXCH_V	380	115	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-116	EXCH_V	380	116	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-117	EXCH_V	380	117	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-118	EXCH_V	380	118	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-119	EXCH_V	380	119	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-121	EXCH_V	380	121	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-122	EXCH_V	380	122	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-123	EXCH_V	380	123	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-124	EXCH_V	380	124	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-125	EXCH_V	380	125	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-126	EXCH_V	380	126	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-127	EXCH_V	380	127	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-128	EXCH_V	380	128	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-129	EXCH_V	380	129	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-130	EXCH_V	380	130	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged

EXCH_V 380-132	EXCH_V	380	132	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-133	EXCH_V	380	133	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-134	EXCH_V	380	134	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-135	EXCH_V	380	135	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-136	EXCH_V	380	136	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-139	EXCH_V	380	139	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-146	EXCH_V	380	146	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-169	EXCH_V	380	169	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-171	EXCH_V	380	171	Student Exchange Program, Undergraduate	W1	In Person Learning	Arranged	Arranged
EXCH_V 380-200	EXCH_V	380	200	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-201	EXCH_V	380	201	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-202	EXCH_V	380	202	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-203	EXCH_V	380	203	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-204	EXCH_V	380	204	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-205	EXCH_V	380	205	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-206	EXCH_V	380	206	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-208	EXCH_V	380	208	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-209	EXCH_V	380	209	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-210	EXCH_V	380	210	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-211	EXCH_V	380	211	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-212	EXCH_V	380	212	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-213	EXCH_V	380	213	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-214	EXCH_V	380	214	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged

EXCH_V 380-215	EXCH_V	380	215	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-216	EXCH_V	380	216	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-217	EXCH_V	380	217	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-218	EXCH_V	380	218	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-219	EXCH_V	380	219	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-220	EXCH_V	380	220	Student Exchange Program, Undergraduate	W1-2	In Person Learning	Arranged	Arranged
EXCH_V 380-221	EXCH_V	380	221	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-222	EXCH_V	380	222	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-223	EXCH_V	380	223	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-224	EXCH_V	380	224	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-225	EXCH_V	380	225	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-226	EXCH_V	380	226	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-227	EXCH_V	380	227	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-228	EXCH_V	380	228	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-229	EXCH_V	380	229	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-230	EXCH_V	380	230	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-231	EXCH_V	380	231	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-232	EXCH_V	380	232	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-233	EXCH_V	380	233	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-234	EXCH_V	380	234	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-235	EXCH_V	380	235	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-236	EXCH_V	380	236	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged
EXCH_V 380-238	EXCH_V	380	238	Student Exchange Program, Undergraduate	W2	In Person Learning	Arranged	Arranged

EXCH_V 380-239	EXCH_V	380	239	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-240	EXCH_V	380	240	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-241	EXCH_V	380	241	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-242	EXCH_V	380	242	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-249	EXCH_V	380	249	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-300	EXCH_V	380	300	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged	
EXCH_V 380-301	EXCH_V	380	301	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged	
EXCH_V 380-302	EXCH_V	380	302	Student Exchange Program, Undergraduate	W1-2		In Person Learning	Arranged	Arranged	
EXCH_V 380-905	EXCH_V	380	905	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-906	EXCH_V	380	906	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-907	EXCH_V	380	907	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-908	EXCH_V	380	908	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 380-940	EXCH_V	380	940	Student Exchange Program, Undergraduate	W2		In Person Learning	Arranged	Arranged	
EXCH_V 383-001	EXCH_V	383	001	Study Abroad Program	W1-2		In Person Learning	Arranged	Arranged	
EXCH_V 383-101	EXCH_V	383	101	Study Abroad Program	W1		In Person Learning	Arranged	Arranged	
EXCH_V 383-201	EXCH_V	383	201	Study Abroad Program	W2		In Person Learning	Arranged	Arranged	
EXCH_V 400-A_101	EXCH_V	400	A	A_101	Commerce Exchange	W1	Please register in EXCH 400 if you are an undergraduate domestic student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 400-B_201	EXCH_V	400	B	B_201	Commerce Exchange	W2	Please register in EXCH 400 if you are an undergraduate domestic student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 400-C_001	EXCH_V	400	C	C_001	Commerce Exchange	W1-2	Please register in EXCH 400 if you are an undergraduate domestic student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 401-A_101	EXCH_V	401	A	A_101	Commerce Exchange	W1	Please register in EXCH 401 if you are an undergraduate domestic student participating in a Commerce-specific exchange to Lancaster University, UK. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 401-B_201	EXCH_V	401	B	B_201	Commerce Exchange	W2	Please register in EXCH 401 if you are an undergraduate domestic student participating in a Commerce-specific exchange to Lancaster University, UK. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 401-C_001	EXCH_V	401	C	C_001	Commerce Exchange	W1-2	Please register in EXCH 401 if you are an undergraduate domestic student participating in a Commerce-specific exchange to Lancaster University, UK. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 402-001	EXCH_V	402		001	Commerce Exchange	W1-2	Please register in EXCH 402 if you are an undergraduate international student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged

EXCH_V 402-002	EXCH_V	402	002	Commerce Exchange	W1-2	Please register in EXCH 402 if you are an undergraduate international student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 402-101	EXCH_V	402	101	Commerce Exchange	W1	Please register in EXCH 402 if you are an undergraduate international student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 402-102	EXCH_V	402	102	Commerce Exchange	W1	Please register in EXCH 402 if you are an undergraduate international student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 402-201	EXCH_V	402	201	Commerce Exchange	W2	Please register in EXCH 402 if you are an undergraduate international student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 402-202	EXCH_V	402	202	Commerce Exchange	W2	Please register in EXCH 402 if you are an undergraduate international student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 402-401	EXCH_V	402	401	Commerce Exchange	W1	Please register in EXCH 402 if you are an undergraduate international student participating in a Commerce-specific exchange. Please ensure that you register for the appropriate term.	In Person Learning	Arranged	Arranged
EXCH_V 580-001	EXCH_V	580	001	Student Exchange Program, Graduate	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 580-100	EXCH_V	580	100	Student Exchange Program, Graduate	W1		In Person Learning	Arranged	Arranged
EXCH_V 580-101	EXCH_V	580	101	Student Exchange Program, Graduate	W1		In Person Learning	Arranged	Arranged
EXCH_V 580-200	EXCH_V	580	200	Student Exchange Program, Graduate	W2		In Person Learning	Arranged	Arranged
EXCH_V 580-201	EXCH_V	580	201	Student Exchange Program, Graduate	W2		In Person Learning	Arranged	Arranged
EXCH_V 581-001	EXCH_V	581	001	Graduate Study Abroad Program	W1-2		In Person Learning	Arranged	Arranged
EXCH_V 581-101	EXCH_V	581	101	Graduate Study Abroad Program	W1		In Person Learning	Arranged	Arranged
EXCH_V 581-201	EXCH_V	581	201	Graduate Study Abroad Program	W2		In Person Learning	Arranged	Arranged
EXCH_V 582-101	EXCH_V	582	101	Grad Student Studying Abroad on a Non-UBC Program	W1		In Person Learning	Arranged	Arranged
FCOR_V 510-001	FCOR_V	510	001	Professional Communication	W1-2		Multi-access Learning	Mon	2:00 p.m. - 5:00 p.m.
FCOR_V 510-002	FCOR_V	510	002	Professional Communication	W1-2		Online Learning	Tue	2:00 p.m. - 5:00 p.m.
FCOR_V 511-001	FCOR_V	511	001	Working with Diverse Knowledge Systems in Sustainable Natural Resources Management	W1-2		Multi-access Learning	Mon	2:00 p.m. - 5:00 p.m.
FCOR_V 511-002	FCOR_V	511	002	Working with Diverse Knowledge Systems in Sustainable Natural Resources Management	W1-2		Online Learning	Tue	2:00 p.m. - 5:00 p.m.
FCOR_V 599-001	FCOR_V	599	001	Project Proposal Development and Proof of Concept	W1-2	Develop, write and present the components of an effective proposal focused on exploring an environmental issue. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 4:00 p.m.
FCOR_V 599-002	FCOR_V	599	002	Project Proposal Development and Proof of Concept	W1-2	Develop, write and present the components of an effective proposal focused on exploring an environmental issue. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
FEBC_V 406-101	FEBC_V	406	101	Forest Research and Planning	W1		In Person Learning	Arranged	Arranged
FIPR_V 101-001	FIPR_V	101	001	Introduction to the History of Film Production	W1	The history of film and film production by decade with a strong emphasis on filmmakers and advances in production technology.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.

FIPR_V 131-001	FIPR_V	131	001	Introduction to Screen Acting	W2	Fundamental techniques used to create emotionally engaged and narratively effective performances for film and digital media.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.	
FIPR_V 133-001	FIPR_V	133	001	Introduction to Film and Media Production	W1	A hands-on introduction to Film and Multi/New Media production, focusing on fundamental techniques for creating effective presentations.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
FIPR_V 133-002	FIPR_V	133	002	Introduction to Film and Media Production	W2	A hands-on introduction to Film and Multi/New Media production, focusing on fundamental techniques for creating effective presentations.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
FIPR_V 230-001	FIPR_V	230	001	Introduction to Motion Picture Directing	W1	The role and methods of the motion picture director.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.	
FIPR_V 233-A_001	FIPR_V	233	A	A_001	Film and Media Production I	W1	Camera operation, lighting, sounds, and editing for film and media production.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
FIPR_V 233-B_001	FIPR_V	233	B	B_001	Film and Media Production I	W2	Camera operation, lighting, sounds, and editing for film and media production.	In Person Learning	Arranged	Arranged
FIPR_V 234-001	FIPR_V	234	001	Production Planning and Professional Practices	W1	Planning of film productions from concept to completion.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.	
FIPR_V 299-A_001	FIPR_V	299	A	A_001	Directed Studies: On-Campus Research	W1	On-campus film production field research. Based on film project work on campus productions. Restricted to Film Production students except with permission. Contact department.	In Person Learning	Arranged	Arranged
FIPR_V 299-B_001	FIPR_V	299	B	B_001	Directed Studies: On-Campus Research	W2	On-campus film production field research. Based on film project work on campus productions. Restricted to Film Production students except with permission. Contact department.	In Person Learning	Arranged	Arranged
FIPR_V 299-C_001	FIPR_V	299	C	C_001	Directed Studies: On-Campus Research	W1-2	On-campus film production field research. Based on film project work on campus productions. Restricted to Film Production students except with permission. Contact department.	In Person Learning	Arranged	Arranged
FIPR_V 333-001	FIPR_V	333	001	Film and Media Production II	W1-2	Intermediate film and media production. Open only to students in the Film Production BFA Program. Students who have not already completed FIPR 337, FIPR 338 must complete them at the same time as FIPR 333. Prerequisite: FIPR 233. Corequisite: All of FIPR 337, FIPR 338. Equivalency: FILM333	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
FIPR_V 337-001	FIPR_V	337	001	Cinematography and Lighting I	W1	Introductory cinematography and lighting techniques and aesthetics for 16mm film and digital media.	In Person Learning	Tue	5:00 p.m. - 10:00 p.m.	
FIPR_V 338-001	FIPR_V	338	001	Motion Picture Sound	W1	An introduction to the technique and aesthetics of creating production and post-production sound for film and media.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
FIPR_V 339-001	FIPR_V	339	001	Post-Production Techniques I	W1	Open only to students in the Film Production BFA Program. Credit will be granted for only one of FIPR 339 or FILM 339. Equivalency: FILM 339	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.	
FIPR_V 399-A_001	FIPR_V	399	A	A_001	Directed Studies: Off-Campus Research	W1	Off-campus film production field research. Based on film project work outside the university. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FIPR_V 399-B_001	FIPR_V	399	B	B_001	Directed Studies: Off-Campus Research	W2	Off-campus film production field research. Based on film project work outside the university. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FIPR_V 399-B_002	FIPR_V	399	B	B_002	Directed Studies: Off-Campus Research	W1	Off-campus film production field research. Based on film project work outside the university. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FIPR_V 399-C_001	FIPR_V	399	C	C_001	Directed Studies: Off-Campus Research	W1-2	Off-campus film production field research. Based on film project work outside the university. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FIPR_V 433-001	FIPR_V	433	001	Film and Media Production III	W1-2	Advanced film and media production. Prerequisite: One of FIPR 333, FILM 333. Equivalency: FILM433	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
FIPR_V 434-A_001	FIPR_V	434	A	A_001	Producing for Film and Television	W1	The creative and business aspects of producing for film and television.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
FIPR_V 436-A_001	FIPR_V	436	A	A_001	Documentary Development and Production	W1	Documentary concept development, essential production techniques, and marketing.	In Person Learning	Arranged	Arranged
FIPR_V 436-B_001	FIPR_V	436	B	B_001	Documentary Development and Production	W2	Documentary concept development, essential production techniques, and marketing.	In Person Learning	Arranged	Arranged
FIPR_V 437-001	FIPR_V	437	001	Cinematography II	W1-2	Advanced camera operation, lighting, and shot design. Open only to students in the FILM BFA Program. Prerequisite: FIPR 337. Equivalency: FILM437	In Person Learning	Tue	5:00 p.m. - 10:00 p.m.	

FIPR_V 439-001	FIPR_V	439	001	001	Post-Production Techniques II	W2	Advanced instruction in motion picture and sound editing practice. Open only to students in FILM BFA Production Program. Prerequisite: One of FIPR 333, FILM 333. Equivalency: FILM439	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
FIPR_V 469-A_001	FIPR_V	469	A	A_001	Special Projects	W2	Advanced film production, including interdisciplinary projects.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
FIPR_V 469-F_001	FIPR_V	469	F	F_001	Special Projects	W1	Advanced film production, including interdisciplinary projects.	In Person Learning	Arranged	Arranged
FIPR_V 469-G_001	FIPR_V	469	G	G_001	Special Projects	W1	Advanced film production, including interdisciplinary projects.	In Person Learning	Arranged	Arranged
FIPR_V 469-G_002	FIPR_V	469	G	G_002	Special Projects	W1	Advanced film production, including interdisciplinary projects.	In Person Learning	Arranged	Arranged
FIPR_V 469-H_001	FIPR_V	469	H	H_001	Special Projects	W2	Advanced film production, including interdisciplinary projects.	In Person Learning	Arranged	Arranged
FIPR_V 469-H_002	FIPR_V	469	H	H_002	Special Projects	W2	Advanced film production, including interdisciplinary projects.	In Person Learning	Arranged	Arranged
FIPR_V 533-A_001	FIPR_V	533	A	A_001	Advanced Problems in Directing	W1	Problems in directing narrative film. Explores problems in scripting, performance, shot design, and editing through seminars, workshops with acting students, and production exercises. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
FIPR_V 533-B_001	FIPR_V	533	B	B_001	Advanced Problems in Directing	W2	Problems in directing narrative film. Explores problems in scripting, performance, shot design, and editing through seminars, workshops with acting students, and production exercises. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:00 a.m. - 1:00 p.m.
FIPR_V 534-A_001	FIPR_V	534	A	A_001	Advanced Production for Film and Television	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
FIPR_V 534-B_001	FIPR_V	534	B	B_001	Advanced Production for Film and Television	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
FIPR_V 536-A_001	FIPR_V	536	A	A_001	Advanced Documentary Development and Production	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 536-B_001	FIPR_V	536	B	B_001	Advanced Documentary Development and Production	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 547-A_001	FIPR_V	547	A	A_001	Directed Studies in Film Production	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 547-B_001	FIPR_V	547	B	B_001	Directed Studies in Film Production	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 547-C_001	FIPR_V	547	C	C_001	Directed Studies in Film Production	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 549-A_001	FIPR_V	549	A	A_001	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 549-B_001	FIPR_V	549	B	B_001	Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 549-C_001	FIPR_V	549	C	C_001	Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 549-C_002	FIPR_V	549	C	C_002	Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FIPR_V 549-C_003	FIPR_V	549	C	C_003	Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 500-100	FISH_V	500		100	Issues in Fisheries Research: Seminars - Fisheries Management	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
FISH_V 500-D00	FISH_V	500		D00	Issues in Fisheries Research: Seminars - Fisheries Management	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 2:30 p.m.

FISH_V 501-201	FISH_V	501	201	Issues in Fisheries Research: Ecosystem Modelling	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.	
FISH_V 505-201	FISH_V	505	201	Quantitative Analysis of Fisheries II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FISH_V 506-F_102	FISH_V	506	F	F_102	Current Topics in Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
FISH_V 506-G_101	FISH_V	506	G	G_101	Current Topics in Fisheries	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
FISH_V 506-H_101	FISH_V	506	H	H_101	Current Topics in Fisheries	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 506-I_201	FISH_V	506	I	I_201	Current Topics in Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	9:30 a.m. - 12:30 p.m.
FISH_V 506-J_201	FISH_V	506	J	J_201	Current Topics in Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Thu	8:00 a.m. - 10:00 a.m.
FISH_V 510-101	FISH_V	510	101	Bayesian Decision Analysis for Fisheries Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FISH_V 520-101	FISH_V	520	101	Fisheries Conservation, Governance, and Evaluation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
FISH_V 548-A_100	FISH_V	548	A	A_100	Directed Studies in Oceans and Fisheries	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-A_101	FISH_V	548	A	A_101	Directed Studies in Oceans and Fisheries	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-A_102	FISH_V	548	A	A_102	Directed Studies in Oceans and Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-A_201	FISH_V	548	A	A_201	Directed Studies in Oceans and Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-B_100	FISH_V	548	B	B_100	Directed Studies in Oceans and Fisheries	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-B_101	FISH_V	548	B	B_101	Directed Studies in Oceans and Fisheries	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-B_102	FISH_V	548	B	B_102	Directed Studies in Oceans and Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-B_201	FISH_V	548	B	B_201	Directed Studies in Oceans and Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-C_100	FISH_V	548	C	C_100	Directed Studies in Oceans and Fisheries	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-C_101	FISH_V	548	C	C_101	Directed Studies in Oceans and Fisheries	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-C_102	FISH_V	548	C	C_102	Directed Studies in Oceans and Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 548-C_201	FISH_V	548	C	C_201	Directed Studies in Oceans and Fisheries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FISH_V 549-A_100	FISH_V	549	A	A_100	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FISH_V 549-A_101	FISH_V	549	A	A_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

FISH_V 549-A_102	FISH_V	549	A	A_102	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FISH_V 549-A_201	FISH_V	549	A	A_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FISH_V 549-B_100	FISH_V	549	B	B_100	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FISH_V 549-B_101	FISH_V	549	B	B_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FISH_V 549-B_102	FISH_V	549	B	B_102	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FISH_V 549-B_201	FISH_V	549	B	B_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FISH_V 699-100	FISH_V	699		100	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
FISH_V 699-101	FISH_V	699		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
FISH_V 699-102	FISH_V	699		102	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
FISH_V 699-201	FISH_V	699		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
FMST_V 210-101	FMST_V	210		101	Family Context of Human Development	W1	The influence of family dynamics and social conditions on human development.	In Person Learning	Arranged	Arranged
FMST_V 210-102	FMST_V	210		102	Family Context of Human Development	W1	The influence of family dynamics and social conditions on human development.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
FMST_V 210-103	FMST_V	210		103	Family Context of Human Development	W1	The influence of family dynamics and social conditions on human development.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FMST_V 210-104	FMST_V	210		104	Family Context of Human Development	W1	The influence of family dynamics and social conditions on human development.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
FMST_V 210-106	FMST_V	210		106	Family Context of Human Development	W1	The influence of family dynamics and social conditions on human development.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
FMST_V 210-202	FMST_V	210		202	Family Context of Human Development	W2	The influence of family dynamics and social conditions on human development.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FMST_V 210-206	FMST_V	210		206	Family Context of Human Development	W2	The influence of family dynamics and social conditions on human development.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
FMST_V 210-207	FMST_V	210		207	Family Context of Human Development	W2	The influence of family dynamics and social conditions on human development.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FMST_V 210-208	FMST_V	210		208	Family Context of Human Development	W2	The influence of family dynamics and social conditions on human development.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FMST_V 210-209	FMST_V	210		209	Family Context of Human Development	W2	The influence of family dynamics and social conditions on human development.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
FMST_V 238-101	FMST_V	238		101	Family Resource Management	W1	Conceptual models of resource management as related to families.	In Person Learning	Tue Thu	2:00 p.m. - 3:00 p.m.
FMST_V 238-201	FMST_V	238		201	Family Resource Management	W2	Conceptual models of resource management as related to families.	In Person Learning	Arranged	Arranged
FMST_V 312-104	FMST_V	312		104	Parent-child Relationships	W1	Parent-child interaction over the life span. Recommended pre-requisites: one of SOCI 200, FMST 210.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.

FMST_V 312-105	FMST_V	312	105	Parent-child Relationships	W1	Parent-child interaction over the life span. Recommended pre-requisites: one of SOCI 200, FMST 210.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FMST_V 312-106	FMST_V	312	106	Parent-child Relationships	W2	Parent-child interaction over the life span. Recommended pre-requisites: one of SOCI 200, FMST 210.	In Person Learning	Arranged	Arranged
FMST_V 312-107	FMST_V	312	107	Parent-child Relationships	W1	Parent-child interaction over the life span. Recommended pre-requisites: one of SOCI 200, FMST 210.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FMST_V 312-201	FMST_V	312	201	Parent-child Relationships	W2	Parent-child interaction over the life span. Recommended pre-requisites: one of SOCI 200, FMST 210.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FMST_V 312-202	FMST_V	312	202	Parent-child Relationships	W2	Parent-child interaction over the life span. Recommended pre-requisites: one of SOCI 200, FMST 210.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
FMST_V 312-205	FMST_V	312	205	Parent-child Relationships	W2	Parent-child interaction over the life span. Recommended pre-requisites: one of SOCI 200, FMST 210.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
FMST_V 314-102	FMST_V	314	102	Relationship Development	W1	The study of the development, course, and decline of personal relationships. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FMST_V 314-105	FMST_V	314	105	Relationship Development	W1	The study of the development, course, and decline of personal relationships. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
FMST_V 314-106	FMST_V	314	106	Relationship Development	W1	The study of the development, course, and decline of personal relationships. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FMST_V 314-201	FMST_V	314	201	Relationship Development	W2	The study of the development, course, and decline of personal relationships. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Wed Fri	12:30 p.m. - 2:00 p.m.
FMST_V 314-202	FMST_V	314	202	Relationship Development	W2	The study of the development, course, and decline of personal relationships. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
FMST_V 316-101	FMST_V	316	101	Human Sexuality	W1	An examination of human sexual development and behaviour. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FMST_V 316-102	FMST_V	316	102	Human Sexuality	W1	An examination of human sexual development and behaviour. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
FMST_V 316-103	FMST_V	316	103	Human Sexuality	W1	An examination of human sexual development and behaviour. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
FMST_V 316-202	FMST_V	316	202	Human Sexuality	W2	An examination of human sexual development and behaviour. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
FMST_V 316-204	FMST_V	316	204	Human Sexuality	W2	An examination of human sexual development and behaviour. Recommended pre-requisites: one of SOCI 200, PSYC 100, PSYC 101, PSYC 102, SOCI 240.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
FMST_V 441-202	FMST_V	441	202	Social Context of Child Development	W2	The ways in which the familial, physical, and social environment affect the life structures, opportunities and outcomes of epigenetic developmental processes. Credit will be granted for only one of FMST 441 or SOWK 441. Credit will be granted for only one of FMST 441 or SOWK 441. Equivalency: SOWK 441	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
FNEL_V 101-A_001	FNEL_V	101	A	A_001	W1	Introduction to a Salish Language I	In Person Learning	Tue Thu	4:30 p.m. - 6:00 p.m.
FNEL_V 102-A_001	FNEL_V	102	A	A_001	W2	Continued focus on the diverse range of language learning skills that advance competency in conversational fluency, pronunciation, comprehension, vocabulary, oral traditions, literacy, grammatical understanding, and the cultural contextualization of language use. Prerequisite must be in same language. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNEL 101.	In Person Learning	Tue Thu	4:30 p.m. - 6:00 p.m.
FNEL_V 180-101	FNEL_V	180		101	W1	Foundational concepts in the critical study of cultural, historical, social, and political factors that impact language loss, retention, and revival. Introducing strategies and practical methodologies for collaborative, interdisciplinary, community-based documentation and revitalization projects for First Nations and Indigenous languages. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FNEL_V 201-A_001	FNEL_V	201	A	A_001	W1	Intermediate Salish Language I	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.

FNEL_V 202-A_001	FNEL_V	202	A	A_001	Intermediate Salish Language II	W2	Continued focus on the diverse range of language learning skills that advance competency in conversational fluency, pronunciation, comprehension, vocabulary, oral traditions, literacy, grammatical understanding, and the cultural contextualization of language use. Prerequisite must be in same language. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNEL 201.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
FNEL_V 282-101	FNEL_V	282		101	Structures of Endangered Languages: Conservation and Revitalization	W2	Development of skills in the documentation, transcription and analysis of grammatical structures in endangered languages, focusing on the diversity within BC Indigenous languages. Applied techniques in documentation, workflow and multi-media digital annotation, guided by community-based ethical protocols and conservation/revitalization goals. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FNEL_V 380-001	FNEL_V	380		001	Technologies for Endangered Language Documentation and Revitalization	W2	Digital tools for endangered language documentation, conservation, and revitalization. Overview of best practices, introduction to community engagement and capacity-building, protocols and ethics, project design, cultural context, orthographies, use of audio, video and still photography, data management, archiving and web publishing. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FNEL_V 380-101	FNEL_V	380		101	Technologies for Endangered Language Documentation and Revitalization	W1	Digital tools for endangered language documentation, conservation, and revitalization. Overview of best practices, introduction to community engagement and capacity-building, protocols and ethics, project design, cultural context, orthographies, use of audio, video and still photography, data management, archiving and web publishing. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
FNEL_V 381-001	FNEL_V	381		001	Biocultural Diversity: Language, Community, and Environment	W1	Critical exploration of the links between linguistic, biological and cultural diversity; including connections with linguistic relativity, linguistic identity, language and place; and strategies for collective, interdisciplinary action to promote and support the protection of languages, cultures, and the environment. Restricted to Undergraduate Students.	In Person Learning	Arranged	Arranged
FNEL_V 381-101	FNEL_V	381		101	Biocultural Diversity: Language, Community, and Environment	W2	Critical exploration of the links between linguistic, biological and cultural diversity; including connections with linguistic relativity, linguistic identity, language and place; and strategies for collective, interdisciplinary action to promote and support the protection of languages, cultures, and the environment. Restricted to Undergraduate Students.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
FNEL_V 448-A_101	FNEL_V	448	A	A_101	Directed Research in First Nations Languages	W2	Supervised by a faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
FNEL_V 448-B_101	FNEL_V	448	B	B_101	Directed Research in First Nations Languages	W2	Supervised by a faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
FNEL_V 448-H_001	FNEL_V	448	H	H_001	Directed Research in First Nations Languages	W2	Supervised by a faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
FNEL_V 448-K_101	FNEL_V	448	K	K_101	Directed Research in First Nations Languages	W1	Supervised by a faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
FNEL_V 481-001	FNEL_V	481		001	Heritage Resources in Endangered First Nations Language Revitalization	W2	Examines the complementary and intersecting roles of libraries, archives, and museums in collections acquisition, development, curation, preservation, and access traditions pertaining to First Nations languages, to explore how each can contribute to endangered language and cultural heritage sustainability. Restricted to Undergraduate Students. Prerequisite must be in same language. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNEL 180, FNEL 281, FNEL 282. or permission of the instructor.	In Person Learning	Arranged	Arranged
FNEL_V 481-101	FNEL_V	481		101	Heritage Resources in Endangered First Nations Language Revitalization	W2	Examines the complementary and intersecting roles of libraries, archives, and museums in collections acquisition, development, curation, preservation, and access traditions pertaining to First Nations languages, to explore how each can contribute to endangered language and cultural heritage sustainability. Restricted to Undergraduate Students. Prerequisite must be in same language. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNEL 180, FNEL 281, FNEL 282. or permission of the instructor.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
FNEL_V 482-001	FNEL_V	482		001	Applied Research in Endangered Language Reclamation	W2	Application of research skills and methodologies in the design and implementation of a research project relevant to endangered language conservation and/or revitalization. Project co-constructed in collaboration with a First Nations community, guided by community-based ethical protocols. Restricted to Undergraduate Students. Pre-requisite must be in same language. Recommended pre-requisite: FNEL 481. This course is not eligible for Credit/D/Fail grading. Corequisite: All of FNEL 281, FNEL 282, FNEL 389. Corequisites can be taken either alongside or prior to FNEL 482.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
FNH_V 160-101	FNH_V	160		101	Integrated Physiology for Human Nutrition I	W1	Basic principles in human physiology, including function of the nervous, endocrine, musculoskeletal and digestive systems, integration across systems, maintenance of homeostasis, and application to human nutrition. Prerequisite: One of CHEM 11, CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, ATPH 12, BIOL 12, BIOL 111. FNH 160 and 161 together are credit-excluded with BIOL 153 and 155.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FNH_V 160-201	FNH_V	160		201	Integrated Physiology for Human Nutrition I	W2	Basic principles in human physiology, including function of the nervous, endocrine, musculoskeletal and digestive systems, integration across systems, maintenance of homeostasis, and application to human nutrition. Prerequisite: One of CHEM 11, CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIOL 11, ATPH 12, BIOL 12, BIOL 111. FNH 160 and 161 together are credit-excluded with BIOL 153 and 155.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FNH_V 161-201	FNH_V	161		201	Integrated Physiology for Human Nutrition II	W2	Basic principles in human physiology, including function of the cardiovascular, immune, respiratory, urinary and reproductive systems, integration across systems, maintenance of homeostasis, and application to human nutrition. Prerequisite: FNH 160. FNH 160 and 161 together are credit-excluded with BIOL 153 and 155.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FNH_V 200-101	FNH_V	200		101	Exploring Our Food	W1	Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. [3-0-0] Prerequisite: At least second year standing required.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.

FNH_V 200-102	FNH_V	200	102	Exploring Our Food	W1	Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. [3-0-0] Prerequisite: At least second year standing required.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FNH_V 200-103	FNH_V	200	103	Exploring Our Food	W2	Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. [3-0-0] Prerequisite: At least second year standing required.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FNH_V 200-104	FNH_V	200	104	Exploring Our Food	W2	Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. [3-0-0] Prerequisite: At least second year standing required.	Online Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FNH_V 200-105	FNH_V	200	105	Exploring Our Food	W1	Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. [3-0-0] Prerequisite: At least second year standing required.	Online Learning	Arranged	Arranged
FNH_V 250-001	FNH_V	250	001	Nutrition Concepts and Controversies	W1	Fundamental concepts and principles of human nutrition applied to current nutrition issues. Prerequisite: Either (a) all of FNH 160, FNH 161 or (b) one of BIOL 111, BIOL 112, BIOL 153, BIOL 155 or (c) all of KIN 131, KIN 132. At least second-year standing required.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FNH_V 250-002	FNH_V	250	002	Nutrition Concepts and Controversies	W2	Fundamental concepts and principles of human nutrition applied to current nutrition issues. Prerequisite: Either (a) all of FNH 160, FNH 161 or (b) one of BIOL 111, BIOL 112, BIOL 153, BIOL 155 or (c) all of KIN 131, KIN 132. At least second-year standing required.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
FNH_V 250-102	FNH_V	250	102	Nutrition Concepts and Controversies	W1	Fundamental concepts and principles of human nutrition applied to current nutrition issues. Prerequisite: Either (a) all of FNH 160, FNH 161 or (b) one of BIOL 111, BIOL 112, BIOL 153, BIOL 155 or (c) all of KIN 131, KIN 132. At least second-year standing required.	In Person Learning	Arranged	Arranged
FNH_V 300-001	FNH_V	300	001	Food Engineering	W1	Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisite: One of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, PHYS 158, PHYS 170.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FNH_V 300-001	FNH_V	300	D01	Food Engineering	W1	Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisite: One of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, PHYS 158, PHYS 170.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
FNH_V 301-001	FNH_V	301	001	Food Chemistry	W1	Chemical and physical properties and reactions of food constituents, including water, carbohydrates, proteins, lipids, minerals and vitamins. [3-0-1] Prerequisite: Either (a) CHEM 201 or (b) CHEM 205; and either (a) CHEM 203 or (b) CHEM 233.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FNH_V 301-001	FNH_V	301	D01	Food Chemistry	W1	Chemical and physical properties and reactions of food constituents, including water, carbohydrates, proteins, lipids, minerals and vitamins. [3-0-1] Prerequisite: Either (a) CHEM 201 or (b) CHEM 205; and either (a) CHEM 203 or (b) CHEM 233.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
FNH_V 302-101	FNH_V	302	101	Food Analysis	W1	Principles of and procedures for analysis of the chemical and physical properties of food; proximate analysis; introduction to instrumental analysis; reporting and analysis of data. [3-0-1] Prerequisite: Either (a) CHEM 201 or (b) CHEM 205; and either (a) CHEM 203 or (b) CHEM 233.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FNH_V 302-001	FNH_V	302	D01	Food Analysis	W1	Principles of and procedures for analysis of the chemical and physical properties of food; proximate analysis; introduction to instrumental analysis; reporting and analysis of data. [3-0-1] Prerequisite: Either (a) CHEM 201 or (b) CHEM 205; and either (a) CHEM 203 or (b) CHEM 233.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
FNH_V 303-001	FNH_V	303	001	Food Product Development	W2	Introduction to and application of concepts involved in food product formulation and development. Prerequisite: One of LFS 252, BIOL 300, EPSE 482, FRST 231, STAT 200. FNH 301 recommended.	In Person Learning	Wed Fri	10:30 a.m. - 12:00 p.m.
FNH_V 309-001	FNH_V	309	001	Food Processing	W2	Preservation of tissue and fluid food systems by selected physical and chemical treatments with emphasis on product-process interactions. Prerequisite: One of PHYS 12, PHYS 100, PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, PHYS 158, PHYS 170.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
FNH_V 309-001	FNH_V	309	D01	Food Processing	W2	Preservation of tissue and fluid food systems by selected physical and chemical treatments with emphasis on product-process interactions. Prerequisite: One of PHYS 12, PHYS 100, PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, PHYS 158, PHYS 170.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
FNH_V 313-001	FNH_V	313	001	Food Microbiology	W1	Roles of microorganisms in food production, preservation, spoilage, and foodborne disease; factors affecting growth, survival and inactivation of microorganisms in foods; methods for identifying, enumerating, and eliminating microorganisms in food-production environments. [3-0-0] Prerequisite: BIOL 112. third-year standing.	Multi-access Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FNH_V 325-001	FNH_V	325	001	Food Science Laboratory I	W1	Laboratory techniques used in food chemistry, microbiology and processing; statistical analysis and presentation of experimental data; scientific report writing. Enrolment restricted to Food Science students. Prerequisite: FNH 200. Corequisite: All of FNH 301, FNH 309, FNH 313.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
FNH_V 325-002	FNH_V	325	002	Food Science Laboratory I	W1	Laboratory techniques used in food chemistry, microbiology and processing; statistical analysis and presentation of experimental data; scientific report writing. Enrolment restricted to Food Science students. Prerequisite: FNH 200. Corequisite: All of FNH 301, FNH 309, FNH 313.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
FNH_V 326-001	FNH_V	326	001	Food Science Laboratory II	W2	Laboratory techniques used in food analysis, food processing, sensory science and product development; statistical analysis and presentation of experimental data; scientific report writing. Enrolment restricted to Food Science students. Prerequisite: FNH 325. Corequisite: All of FNH 302, FNH 303.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
FNH_V 326-002	FNH_V	326	002	Food Science Laboratory II	W2	Laboratory techniques used in food analysis, food processing, sensory science and product development; statistical analysis and presentation of experimental data; scientific report writing. Enrolment restricted to Food Science students. Prerequisite: FNH 325. Corequisite: All of FNH 302, FNH 303.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
FNH_V 330-001	FNH_V	330	001	Introduction to Wine Science I	W1	Principles of viticulture, enology, and wine microbiology and chemistry; marketing, regulation and classification of wines from selected regions of the world; social, economic and health aspects of wine consumption; wine appreciation. Prerequisite: Third-year standing or higher.	Multi-access Learning	Tue Thu	4:00 p.m. - 5:00 p.m.



FNH_V 340-L01	FNH_V	340	L01	Food Theory and Applications	W2	Principles of food preparation based on the physical and chemical properties of food, and experimental and practical applications to food preparation. This course is not eligible for Credit/D/Fail grading. [1.5-3-0] Prerequisite: [FNH 200] AND ([CHEM111, CHEM113] OR [CHEM121, CHEM123])	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
FNH_V 340-L02	FNH_V	340	L02	Food Theory and Applications	W2	Principles of food preparation based on the physical and chemical properties of food, and experimental and practical applications to food preparation. This course is not eligible for Credit/D/Fail grading. [1.5-3-0] Prerequisite: [FNH 200] AND ([CHEM111, CHEM113] OR [CHEM121, CHEM123])	In Person Learning	Thu	12:30 p.m. - 3:30 p.m.
FNH_V 342-001	FNH_V	342	001	Critical Perspectives on Consumer Food Practices	W1	Personal, collective, and policy factors affecting food choices, including perceptions of healthy eating, gender, identity, family structures, and economic, sociocultural, and political forces. [3-0-0] Prerequisite: At least third year standing required.	In Person Learning	Mon Fri	9:30 a.m. - 11:00 a.m.
FNH_V 345-201	FNH_V	345	201	Counselling Skills in Dietetics	W2	Counselling in dietetics: communication theory and foundational counselling skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 370.	In Person Learning	Wed Fri	1:30 p.m. - 3:00 p.m.
FNH_V 350-001	FNH_V	350	001	Fundamentals of Nutrition	W1	Fundamentals of energy and macronutrient metabolism. [3-0-0] Prerequisite: FNH 250 and one of BIOL 201, BIOC 202.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FNH_V 350-002	FNH_V	350	002	Fundamentals of Nutrition	W2	Fundamentals of energy and macronutrient metabolism. [3-0-0] Prerequisite: FNH 250 and one of BIOL 201, BIOC 202.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FNH_V 351-001	FNH_V	351	001	Vitamins, Minerals, and Health	W1	Vitamin and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIOL 201, BIOC 202.	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FNH_V 351-002	FNH_V	351	002	Vitamins, Minerals, and Health	W2	Vitamin and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIOL 201, BIOC 202.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FNH_V 351-IX1	FNH_V	351	IX1	Vitamins, Minerals, and Health	W1	Vitamin and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIOL 201, BIOC 202.	In Person Learning	Arranged	Arranged
FNH_V 351-IX2	FNH_V	351	IX2	Vitamins, Minerals, and Health	W2	Vitamin and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIOL 201, BIOC 202.	In Person Learning	Arranged	Arranged
FNH_V 355-001	FNH_V	355	001	International Nutrition	W1	Conceptualization and scientific analyses of global problems in food and nutrition; complexities of food habits and malnutrition in various cultures around the world. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FNH_V 355-002	FNH_V	355	002	International Nutrition	W2	Conceptualization and scientific analyses of global problems in food and nutrition; complexities of food habits and malnutrition in various cultures around the world. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FNH_V 370-001	FNH_V	370	001	Nutrition Assessment	W1	The use of dietary, anthropometric, biochemical, and related information for the assessment of nutritional status of individuals and populations. Prerequisite: FNH 250.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FNH_V 371-002	FNH_V	371	002	Human Nutrition Over The Life Span	W2	Nutritional requirements and dietary patterns of healthy individuals throughout the life span. [3-0-0] Prerequisite: FNH 250.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FNH_V 375-201	FNH_V	375	201	Nutrition Care I	W2	Etiology, pathophysiology, and nutrition therapy for selected diseases and conditions. Topics include metabolism, obesity, eating disorders, diabetes, hypertension, and cardiovascular disease. Restricted to students in year 3 of the dietetics major. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FNH 350, FNH 370 and one of BIOL 153, BIOL 155.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
FNH_V 380-001	FNH_V	380	001	Professional Dietetic Practice I	W1	Introduction to the profession of dietetics in Canada. Restricted to students in the Dietetics Major. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing in the Dietetics Major.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
FNH_V 398-001	FNH_V	398	001	Research Methods in Human Nutrition	W1	Process of research; principles and processes in utilizing research. Restricted to students in majors in the FNH program. Prerequisite: FNH 250 and either (a) LFS 252 or (b) BIOL 300 or (c) EPSE 482 or (d) FRST 231 or (e) STAT 200.	In Person Learning	Wed Fri	4:00 p.m. - 5:30 p.m.
FNH_V 398-D01	FNH_V	398	D01	Research Methods in Human Nutrition	W1	Process of research; principles and processes in utilizing research. Restricted to students in majors in the FNH program. Prerequisite: FNH 250 and either (a) LFS 252 or (b) BIOL 300 or (c) EPSE 482 or (d) FRST 231 or (e) STAT 200.	Online Learning	Mon	4:00 p.m. - 5:00 p.m.
FNH_V 401-001	FNH_V	401	001	Advances in Plant and Cell-Based Foods	W1	Examination of meat, egg, fish, and dairy analogues made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 301 and 3rd-year standing or higher, or permission from the instructor.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FNH_V 401-D01	FNH_V	401	D01	Advances in Plant and Cell-Based Foods	W1	Examination of meat, egg, fish, and dairy analogues made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 301 and 3rd-year standing or higher, or permission from the instructor.	In Person Learning	Arranged	Arranged
FNH_V 402-001	FNH_V	402	001	Functional Foods	W2	Functional food concepts related to efficacy and safety; examples of bioactive component-disease relationships; natural health products; approval of functional food and health claims; the importance of clinical studies in support of efficacy for health claims; market determinants of functional foods. Prerequisite: BIOL 201 or equivalent; third-year standing Equivalency: PHAR 431	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FNH_V 403-001	FNH_V	403	001	Food Laws, Regulations and Quality Assurance	W1	Canadian and international laws governing food composition, grading, quality and safety; hazard analysis critical control points; statistical quality assurance. Prerequisite: One of LFS 252, STAT 200, FRST 231, BIOL 300. or equivalent background in statistics.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.

FNH_V 403-002	FNH_V	403	002	Food Laws, Regulations and Quality Assurance	W2	Canadian and international laws governing food composition, grading, quality and safety; hazard analysis critical control points; statistical quality assurance. Prerequisite: One of LFS 252, STAT 200, FRST 231, BIOL 300, or equivalent background in statistics.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
FNH_V 403-D01	FNH_V	403	D01	Food Laws, Regulations and Quality Assurance	W1	Canadian and international laws governing food composition, grading, quality and safety; hazard analysis critical control points; statistical quality assurance. Prerequisite: One of LFS 252, STAT 200, FRST 231, BIOL 300, or equivalent background in statistics.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
FNH_V 403-D02	FNH_V	403	D02	Food Laws, Regulations and Quality Assurance	W1	Canadian and international laws governing food composition, grading, quality and safety; hazard analysis critical control points; statistical quality assurance. Prerequisite: One of LFS 252, STAT 200, FRST 231, BIOL 300, or equivalent background in statistics.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
FNH_V 403-D03	FNH_V	403	D03	Food Laws, Regulations and Quality Assurance	W2	Canadian and international laws governing food composition, grading, quality and safety; hazard analysis critical control points; statistical quality assurance. Prerequisite: One of LFS 252, STAT 200, FRST 231, BIOL 300, or equivalent background in statistics.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
FNH_V 403-D04	FNH_V	403	D04	Food Laws, Regulations and Quality Assurance	W2	Canadian and international laws governing food composition, grading, quality and safety; hazard analysis critical control points; statistical quality assurance. Prerequisite: One of LFS 252, STAT 200, FRST 231, BIOL 300, or equivalent background in statistics.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
FNH_V 404-201	FNH_V	404	201	Food Safety and Quality Management	W2	Food production plant sanitation, environmental monitoring, global food safety standards, and food plant internal audits. Prerequisite: FNH 403.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
FNH_V 405-101	FNH_V	405	101	Microbiology of Food and Beverage Fermentation	W1	Fermentation methods, mechanism and microbiology of nonalcoholic fermented foods and alcoholic fermented beverages (beer, cider, sake). Prerequisite: One of MICB 211, MICB 212, BIOL 201, BIOL 203, BIOC 203. Third-year standing.	Multi-access Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FNH_V 413-001	FNH_V	413	001	Food Safety	W1	Microbial and chemical factors that underlie public health challenges in the food supply chain; prevalence and nature of organisms which cause foodborne diseases; approaches and technologies for improvement of food safety. Prerequisite: One of MICB 211, MICB 212, CHEM 233, FNH 313.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FNH_V 413-D01	FNH_V	413	D01	Food Safety	W1	Microbial and chemical factors that underlie public health challenges in the food supply chain; prevalence and nature of organisms which cause foodborne diseases; approaches and technologies for improvement of food safety. Prerequisite: One of MICB 211, MICB 212, CHEM 233, FNH 313.	In Person Learning	Arranged	Arranged
FNH_V 414-101	FNH_V	414	101	Sustainability in the Food Industry	W1	Regenerative sustainability and the sustainability nexus; health and environmental impacts of the food industry; environmental performance indicators and management systems; approaches to enhance sustainability in the food industry. Prerequisite: One of FNH 309, FNH 313.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
FNH_V 415-001	FNH_V	415	001	Business Concepts in Food, Nutrition, and Health	W1	Introduction to and application of business activities in food, nutrition, and health settings. Credit will only be granted for only one of FNH 415, FOOD 515, or FRE 515. Prerequisite: At least third-year standing in the Faculty of Land and Food Systems.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
FNH_V 419-001	FNH_V	419	001	Interfacial Phenomena	W2	Outline of the physics and chemistry of interfaces; discussion of the part played by surface effects in technical processes. Credit will be granted for only one of FNH 419 and FOOD 519. Prerequisite: FNH 300, or equivalent. Equivalency: CHBE 487	In Person Learning	Arranged	Arranged
FNH_V 425-001	FNH_V	425	001	Food Science Laboratory III	W1-2	Integrated course designed to illustrate principles of research and product development in the food industry. [0-3-1] Prerequisite: All of FNH 325, FNH 326.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
FNH_V 440-001	FNH_V	440	001	Food Service Systems Management	W1	Management responsibilities in quantity food production with emphasis on menu planning, purchasing and service. Includes planning and equipping food services. Restricted to students in the Dietetics major. Note: Course registrants are required to possess a Foodsafe II certificate. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: FNH 340.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
FNH_V 440-E01	FNH_V	440	E01	Food Service Systems Management	W1	Management responsibilities in quantity food production with emphasis on menu planning, purchasing and service. Includes planning and equipping food services. Restricted to students in the Dietetics major. Note: Course registrants are required to possess a Foodsafe II certificate. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: FNH 340.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
FNH_V 451-002	FNH_V	451	002	Nutrient Metabolism and Implications for Health	W2	Integration of nutrient and energy metabolism on a whole-body and individual tissue basis and the implication for health. Emphasis will be on regulation of nutrient metabolism. [3-0-0] Prerequisite: All of FNH 350, BIOC 302, and either (a) one of BIOL 153, BIOL 155, CAPS 301 or (b) all of FNH 160 and 161.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FNH_V 455-001	FNH_V	455	001	Applied International Nutrition	W2	Applying nutrition concepts and principles in addressing problems of malnutrition and food insecurity in international settings. Basics of developing culturally acceptable, sustainable nutrition intervention programs. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: FNH 355.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FNH_V 470-001	FNH_V	470	001	Nutrition Care II	W1	Etiology, pathophysiology and nutrition therapy for selected diseases and conditions. Topics include nutrition support, gastrointestinal conditions, surgery, allergies and intolerances. Restricted to students in year 4 of the dietetics major. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FNH 371, FNH 375.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
FNH_V 472-001	FNH_V	472	001	Maternal and Fetal Nutrition	W1	Metabolic adaptations, nutrient metabolism, and special issues during pregnancy that may influence the maternal-fetal nutritional supply. [3-0-0] Corequisite: FNH 350. Third-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FNH_V 473-001	FNH_V	473	001	Applied Public Health Nutrition	W2	Theory and methods in public health nutrition and health promotion program planning to assess, plan, implement, and evaluate nutrition-related programs for communities and populations. Considers factors affecting behavior and the social determinants of health. [3-0-0] Prerequisite: FNH 250 and fourth-year standing.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
FNH_V 474-002	FNH_V	474	002	Sport Nutrition	W2	Nutritional needs of athletes, including energy, carbohydrate and protein; hydration; pre- and post-event nutrition, weight management and body composition issues; ergogenic aids; sports-specific guidelines; and special athlete populations. Prerequisite: All of FNH 350, FNH 351.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FNH_V 475-002	FNH_V	475	002	Nutrition Care III	W2	Etiology, pathophysiology and nutrition therapy for selected diseases and conditions. Topics include neurological disorders, dysphagia, critical care, oncology, hepatobiliary conditions, HIV and renal disease. Restricted to students in year 4 of the dietetics major. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BIOC 302, FNH 470.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.

FNH_V 477-001	FNH_V	477	001	Nutrition and Disease Prevention	W2	Evidence-based examination of the role of nutrition in the prevention of chronic disease. [3-0-0] Prerequisite: FNH 398.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
FNH_V 480-001	FNH_V	480	001	Professional Dietetic Practice II	W2	Skill development and application for practice education placements and dietetic practice settings. Restricted to students in the Dietetics Major. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FNH 380, FNH 381.	In Person Learning	Arranged	Arranged	
FNH_V 480-002	FNH_V	480	002	Professional Dietetic Practice II	W2	Skill development and application for practice education placements and dietetic practice settings. Restricted to students in the Dietetics Major. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FNH 380, FNH 381.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.	
FNH_V 482-201	FNH_V	482	201	Dietetics Practice Education Placement III	W1	Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 481.	In Person Learning	Mon Tue Wed Thu Fri	9:00 a.m. - 5:00 p.m.	
FNH_V 482-202	FNH_V	482	202	Dietetics Practice Education Placement III	W1	Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 481.	In Person Learning	Mon Tue Wed Thu Fri	9:00 a.m. - 5:00 p.m.	
FNH_V 483-101	FNH_V	483	101	Dietetics Practice Education Placement IV	W2	Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 482.	In Person Learning	Mon Tue Wed Thu Fri	9:00 a.m. - 5:00 p.m.	
FNH_V 483-102	FNH_V	483	102	Dietetics Practice Education Placement IV	W2	Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 482.	In Person Learning	Mon Tue Wed Thu Fri	9:00 a.m. - 5:00 p.m.	
FNH_V 490-001	FNH_V	490	001	Advanced Topics in Food, Nutrition, and Health	W1	Analysis and interpretation of current issues in food, nutrition and health. Prerequisite: 3rd year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
FNH_V 490-001	FNH_V	490	D01	Advanced Topics in Food, Nutrition, and Health	W1	Analysis and interpretation of current issues in food, nutrition and health. Prerequisite: 3rd year standing or higher.	In Person Learning	Arranged	Arranged	
FNH_V 497-A_101	FNH_V	497	A	A_101	Directed Studies in Food, Nutrition and Health	W1		In Person Learning	Arranged	Arranged
FNH_V 497-A_102	FNH_V	497	A	A_102	Directed Studies in Food, Nutrition and Health	W2		In Person Learning	Arranged	Arranged
FNH_V 497-B_101	FNH_V	497	B	B_101	Directed Studies in Food, Nutrition and Health	W1		In Person Learning	Arranged	Arranged
FNH_V 497-B_102	FNH_V	497	B	B_102	Directed Studies in Food, Nutrition and Health	W2		In Person Learning	Arranged	Arranged
FNH_V 497-E_001	FNH_V	497	E	E_001	Directed Studies in Food, Nutrition and Health	W1-2		In Person Learning	Arranged	Arranged
FNH_V 497-E_101	FNH_V	497	E	E_101	Directed Studies in Food, Nutrition and Health	W1		In Person Learning	Arranged	Arranged
FNH_V 497-E_102	FNH_V	497	E	E_102	Directed Studies in Food, Nutrition and Health	W2		In Person Learning	Arranged	Arranged
FNH_V 499-001	FNH_V	499	001	Undergraduate Thesis	W1-2	Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year.	In Person Learning	Arranged	Arranged	
FNH_V 499-101	FNH_V	499	101	Undergraduate Thesis	W1	Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year.	In Person Learning	Arranged	Arranged	
FNH_V 499-102	FNH_V	499	102	Undergraduate Thesis	W2	Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year.	In Person Learning	Arranged	Arranged	
FNIS_V 100-A_001	FNIS_V	100	A	A_001	Indigenous Foundations	W1	The historical, cultural, political, economic and legal issues that inform the experiences of Indigenous peoples in Canada, examined from both Indigenous and non-Indigenous perspectives. Credit will be granted for only one of FNIS 100, FNISP 100, or FNISP 200. Restricted to Undergraduate Students.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
FNIS_V 210-001	FNIS_V	210	001	Indigenous Politics and Self-Determination	W1	The cultural, historical, political, economic, and gender dynamics that structure the relationship between Indigenous peoples and the state in Canada; Indigenous self-determination struggles in relation to constitutional recognition, self-government, land claims, and economic development. Credit will be granted for only one of FNISP 200, FNIS 210, or FNISP 210. Restricted to Undergraduate Students. Recommended pre-requisite: FNIS 100.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
FNIS_V 220-001	FNIS_V	220	001	Representation and Indigenous Cultural Politics	W2	Representation, identity, and cultural politics through Indigenous literature, film, and the visual arts; the relationship between these sites of cultural production and the self-determination struggles of Indigenous peoples. Credit will be granted for only one of FNISP 200, FNIS 220, or FNISP 220. Restricted to Undergraduate Students. Recommended pre-requisite: FNIS 100.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	

FNIS_V 300-001	FNIS_V	300	001	Writing First Nations	W2	writing-intensive course examining approaches to writing Indigenous research: Representation & the Other; Indigenous critiques of research & representation; Indigenous, feminist and cultural studies approaches to writing ethnography, oral history, and related research methods. Credit will be granted for only one of FNIS 300 or FNISP 300. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) one of FNIS 210, FNIS 220 or (b) one of FNISP 210, FNISP 220. Equivalency: FNISP 300.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.	
FNIS_V 310-001	FNIS_V	310	001	Critical Indigenous Theory Seminar	W1	Adapting and integrating current conceptual paradigms in the humanities, social sciences, performing arts, and Indigenous studies into approaches in First Nations/Indigenous Studies, including identity construction, political and cultural self-determination, representation, essentialism/authenticity, ethics, and decolonization. Credit will be granted for only one of FNIS 310 or FNISP 310. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) FNISP 200 or (b) all of FNIS 210, FNIS 220 or (c) all of FNISP 210, FNISP 220.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
FNIS_V 320-001	FNIS_V	320	001	Critical Indigenous Methodologies and Ethics	W2	Responsible and community-based research from a critical Indigenous perspective; methods for identifying and assessing research materials, critical analysis, oral history/qualitative research interviewing and analysis, and research ethics in the design and implementation of community-based student research projects. Credit will be granted for only one of FNIS 320 or FNISP 320. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) FNIS 310 or (b) FNISP 310.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.	
FNIS_V 400-001	FNIS_V	400	001	Practicum/Advanced Research Seminar	W1-2	Applied research/community oriented project designed and implemented in collaboration with student, faculty and Aboriginal community organization. Emphasis on examining ethical issues and developing culturally respectful and academically rigorous forms of research. Credit will be granted for only one of FNIS 400 or FNISP 400. Restricted to Majors in First Nations and Indigenous Studies. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of FNIS 310, FNIS 320 or (b) all of FNISP 310, FNISP 320. Students must pass FNIS 320 or FNISP 320 with a B- or higher or request program approval. Equivalency: FNISP 400.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.	
FNIS_V 400-D01	FNIS_V	400	D01	Practicum/Advanced Research Seminar	W1-2	Applied research/community oriented project designed and implemented in collaboration with student, faculty and Aboriginal community organization. Emphasis on examining ethical issues and developing culturally respectful and academically rigorous forms of research. Credit will be granted for only one of FNIS 400 or FNISP 400. Restricted to Majors in First Nations and Indigenous Studies. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of FNIS 310, FNIS 320 or (b) all of FNISP 310, FNISP 320. Students must pass FNIS 320 or FNISP 320 with a B- or higher or request program approval. Equivalency: FNISP 400.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.	
FNIS_V 401-C_001	FNIS_V	401	C	C_001	Special Topics	W1	Topics will vary from year to year. Consult the departmental website: <a href="http://fnsp.arts.ubc.ca">http://fnsp.arts.ubc.ca</a> . Restricted to Undergraduate Students. Prerequisite: One of FNIS 100, FNISP 200, FNIS 210, FNISP 210, FNIS 220, FNISP 220.	In Person Learning	Arranged	Arranged
FNIS_V 401-R_101	FNIS_V	401	R	R_101	Special Topics	W2	Topics will vary from year to year. Consult the departmental website: <a href="http://fnsp.arts.ubc.ca">http://fnsp.arts.ubc.ca</a> . Restricted to Undergraduate Students. Prerequisite: One of FNIS 100, FNISP 200, FNIS 210, FNISP 210, FNIS 220, FNISP 220.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
FNIS_V 454-001	FNIS_V	454	001	Indigenous New Media	W1	New media and digital storytelling works designed and implemented by Indigenous artists, authors, and programmers. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNISP 200, FNIS 210, FNISP 210, FNIS 220, FNISP 220.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.	
FNIS_V 456-101	FNIS_V	456	101	Indigenous Two-Spirit and Queer Studies	W2	Cultural contexts, scholarship, literature, and artistic expressions of Queer, LGBTI, and Two-Spirited Indigenous people, both as an academic area of study and as lived experience and relationship. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNIS 210, FNIS 220, FNISP 200, FNISP 210, FNISP 220.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
FNIS_V 501-C_001	FNIS_V	501	C	C_001	Special Topics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FNIS_V 501-F_101	FNIS_V	501	F	F_101	Special Topics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.
FNIS_V 501-Q_101	FNIS_V	501	Q	Q_101	Special Topics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
FNIS_V 501-R_101	FNIS_V	501	R	R_101	Special Topics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
FOOD_V 500-001	FOOD_V	500	001	M.Sc. Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.	
FOOD_V 500-002	FOOD_V	500	002	M.Sc. Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.	
FOOD_V 500-003	FOOD_V	500	003	M.Sc. Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.	
FOOD_V 510-001	FOOD_V	510	001	Advances in Food Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.	
FOOD_V 511-002	FOOD_V	511	002	Master of Food Science Workshops	W1-2	Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.	

FOOD_V511-DNU_002	FOOD_V	511	DNU_002	Master of Food Science Workshops	W2	Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FOOD_V512-001	FOOD_V	512	001	Hazard Analysis and Critical Control Point and Food Safety Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.	
FOOD_V515-002	FOOD_V	515	002	Fundamentals of Agri-Food Business	W2	Credit will be granted for only one of FNH 415, FOOD 515 or FRE 515. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.	
FOOD_V516-002	FOOD_V	516	002	Advanced Food Safety and Quality Management	W2	Recommended pre-requisites: all of FNH 301, FNH 313, FNH 403. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
FOOD_V519-001	FOOD_V	519	001	Interfacial Phenomena	W2	Credit will be granted for only one of FNH 419 and FOOD 519. This course is not eligible for Credit/D/Fail grading. Strongly recommended: MATH 101, PHYS 108, and CHEM 154. Equivalency: CHBE 587	In Person Learning	Arranged	Arranged	
FOOD_V520-002	FOOD_V	520	002	Advances in Food Analysis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.	
FOOD_V520-L01	FOOD_V	520	L01	Advances in Food Analysis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:30 a.m. - 2:30 p.m.	
FOOD_V521-001	FOOD_V	521	001	Advances in Food Biotechnology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.	
FOOD_V521-LXT	FOOD_V	521	LXT	Advances in Food Biotechnology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FOOD_V522-002	FOOD_V	522	002	Advances in Food Chemistry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.	
FOOD_V523-002	FOOD_V	523	002	Advances in Food Microbiology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:30 p.m. - 5:30 p.m.	
FOOD_V523-L01	FOOD_V	523	L01	Advances in Food Microbiology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FOOD_V524-002	FOOD_V	524	002	Advances in Food Processing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.	
FOOD_V524-L01	FOOD_V	524	L01	Advances in Food Processing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.	
FOOD_V524-L02	FOOD_V	524	L02	Advances in Food Processing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 5:00 p.m.	
FOOD_V525-001	FOOD_V	525	001	Advances in Food Toxicology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:00 p.m. - 1:30 p.m.	
FOOD_V527-A_002	FOOD_V	527	A	A_002	Special Topics in Food Science	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
FOOD_V528-001	FOOD_V	528	001	International Food Laws and Regulations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
FOOD_V529-002	FOOD_V	529	002	Laboratory Methods in Sensory Evaluation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:30 p.m. - 2:30 p.m.	
FOOD_V529-L02	FOOD_V	529	L02	Laboratory Methods in Sensory Evaluation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
FOOD_V530-A_001	FOOD_V	530	A	A_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V530-A_002	FOOD_V	530	A	A_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V530-A_003	FOOD_V	530	A	A_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

FOOD_V 530-B_001	FOOD_V	530	B	B_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V 530-B_002	FOOD_V	530	B	B_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V 530-B_003	FOOD_V	530	B	B_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V 530-D_003	FOOD_V	530	D	D_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V 549-A_001	FOOD_V	549	A	A_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V 549-A_002	FOOD_V	549	A	A_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V 549-A_003	FOOD_V	549	A	A_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FOOD_V 600-001	FOOD_V	600		001	Ph.D. Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
FOOD_V 600-002	FOOD_V	600		002	Ph.D. Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
FOOD_V 600-003	FOOD_V	600		003	Ph.D. Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
FOOD_V 649-001	FOOD_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
FOOD_V 649-002	FOOD_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
FOOD_V 649-003	FOOD_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
FOPE_V 500-101	FOPE_V	500		101	Sustainable Forest Management in a Changing World	W1	Origins of sustainable forest management; criteria and indicators of sustainable forest management used globally and how these will need to be adapted to our changing climate. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 500-201	FOPE_V	500		201	Sustainable Forest Management in a Changing World	W2	Origins of sustainable forest management; criteria and indicators of sustainable forest management used globally and how these will need to be adapted to our changing climate. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 501-101	FOPE_V	501		101	Geomatics in Forestry: Data Collection and Management	W1	Fundamental concepts of spatial technologies and geo-spatial analysis. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 503-201	FOPE_V	503		201	Climate Modelling and Forest Applications	W2	Potential impacts of climate change on global forest systems. Concepts and techniques of climate change modelling; adaptive management strategies. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 504-101	FOPE_V	504		101	Structure and Composition of Tropical Forest Ecosystems	W1	Ecological characteristics of tropical forests including their structure and composition. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 505-201	FOPE_V	505		201	Ecological Processes in Tropical Forests	W2	The ecological processes found in tropical humid and dry forests, including a series of case studies drawn from tropical forests around the world. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 507-101	FOPE_V	507		101	International Forestry Issues, Institutions, and Multilateral Agreements	W1	Major contemporary global natural resources management issues emphasis on Forestry. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 509-201	FOPE_V	509		201	Introduction to Intensive Plantation Forestry	W2	Case studies of plantation forestry systems from around the world; advantages and challenges of intensively managed forests. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 510-101	FOPE_V	510		101	Plantation Silviculture	W1	Science of cultivating forest stands, including influence of climate and soil, characteristics of tree growth and stand development, and forest types and plantation designs. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPE_V 512-201	FOPE_V	512		201	Forest Economics	W2	General and forestry-specific economic principles and concepts, including role of forests in sustainable development. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FOPE 509, FOPE 510.	Online Learning	Arranged	Arranged

FOPE_V 514-101	FOPE_V	514	101	Forest Business Enterprise	W1	Foundations of forest business enterprises (FBEs), including their role in forest management, interactions with stakeholders, and the drivers of successes and failures in FBEs. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
FOPR_V 264-101	FOPR_V	264	101	Introduction to Forest Operations	W1	Basic geomatics, surveying and forest operations. [2-4-0]	In Person Learning	Thu	8:00 a.m. - 12:00 p.m.
FOPR_V 264-L01	FOPR_V	264	L01	Introduction to Forest Operations	W1	Basic geomatics, surveying and forest operations. [2-4-0]	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
FOPR_V 362-201	FOPR_V	362	201	Harvesting Systems and Forest Access	W2	The mechanics and productivity of a broad range of forest harvesting systems combined with topics on forest access. [3-0-1] Prerequisite: One of ECON 101, FRST 101. Corequisite: FRST 318.	Online Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FOPR_V 362-L01	FOPR_V	362	L01	Harvesting Systems and Forest Access	W2	The mechanics and productivity of a broad range of forest harvesting systems combined with topics on forest access. [3-0-1] Prerequisite: One of ECON 101, FRST 101. Corequisite: FRST 318.	In Person Learning	Arranged	Arranged
FOPR_V 388-101	FOPR_V	388	101	Analytical Methods in Forest Hydrology	W1	Analytical methods in forest hydrology and their applications in the planning of forest operations with a focus on the hydrologic and hydraulic design procedures for stream crossings. [3-2] Corequisite: FOPR 264.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FOPR_V 388-L03	FOPR_V	388	L03	Analytical Methods in Forest Hydrology	W1	Analytical methods in forest hydrology and their applications in the planning of forest operations with a focus on the hydrologic and hydraulic design procedures for stream crossings. [3-2] Corequisite: FOPR 264.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
FOPR_V 464-201	FOPR_V	464	201	Operational Planning and Management	W1	A comprehensive overview of operational planning, financial and contractual management. Includes an experiential learning opportunity that focuses on critical thinking and teamwork. These skills combined with the theoretical course content are applied in a practical application with an external stakeholder. [2-2-0] Prerequisite: FOPR 362.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
FOPR_V 464-L01	FOPR_V	464	L01	Operational Planning and Management	W1	A comprehensive overview of operational planning, financial and contractual management. Includes an experiential learning opportunity that focuses on critical thinking and teamwork. These skills combined with the theoretical course content are applied in a practical application with an external stakeholder. [2-2-0] Prerequisite: FOPR 362.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
FRE_V 290-002	FRE_V	290	002	Introductory Topics in Food and Resource Economics	W2	Analysis and interpretation of current issues in food and resource economics. Topics will vary from year to year. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
FRE_V 290-L01	FRE_V	290	L01	Introductory Topics in Food and Resource Economics	W2	Analysis and interpretation of current issues in food and resource economics. Topics will vary from year to year. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
FRE_V 302-001	FRE_V	302	001	Small Business Management in Agri-food Industries	W2	Emphasizes the building of a business plan by exploring topics such as the planning process and financing, marketing and human resource concepts, as applied to an agri-food business, domestically and internationally. [3-0-1] Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
FRE_V 302-201	FRE_V	302	201	Small Business Management in Agri-food Industries	W2	Emphasizes the building of a business plan by exploring topics such as the planning process and financing, marketing and human resource concepts, as applied to an agri-food business, domestically and internationally. [3-0-1] Prerequisite: One of ECON 101, ECON 310.	Hybrid Learning	Fri	9:00 a.m. - 11:00 a.m.
FRE_V 306-001	FRE_V	306	001	Introduction to Global Food Markets	W1	An overview of global food markets including recent trends (e.g., vertical coordination, strategic alliances, multinationals and small firms in niche markets), marketing and trade institutions such as state-trading enterprises and WTO regulations, issues specific to developing nations, and case studies. [3-0-1] Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FRE_V 326-001	FRE_V	326	001	Empirical Methods for Food and Resource Economics	W1	Introduction to empirical methods with applications for problems in food and resource economics; standard linear regression and methods to address data deficiencies; interpretation of regression results for forecasting and policy analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LFS 252, STAT 200, BIOL 300.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FRE_V 340-001	FRE_V	340	001	International Agricultural Development	W1	Characteristics, processes and sources of economic growth, role of agricultural and resource sectors in economic growth, analysis of output and input markets in those sectors, policy failures, tools for empirical analysis of rural markets, growth, and the environment. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
FRE_V 374-001	FRE_V	374	001	Land and Resource Economics	W1	Willingness to pay, opportunity costs, externalities, and market failures in natural resource markets; dynamic efficiency; economic applications including mineral, marine, forest, land, water, and biodiversity. [3-0] Prerequisite: One of ECON 101, ECON 310. Equivalency: ECON374	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FRE_V 385-002	FRE_V	385	002	Quantitative Methods for Business and Resource Management	W2	Spreadsheet modeling and analysis of business and resource management problems: decision analysis, forecasting, linear programming, simulation modeling, and inventory management. [2-1-0] Prerequisite: One of ECON 101, ECON 310 and one of LFS 252, BIOL 300, FRST 231, STAT 200.	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.
FRE_V 385-L01	FRE_V	385	L01	Quantitative Methods for Business and Resource Management	W2	Spreadsheet modeling and analysis of business and resource management problems: decision analysis, forecasting, linear programming, simulation modeling, and inventory management. [2-1-0] Prerequisite: One of ECON 101, ECON 310 and one of LFS 252, BIOL 300, FRST 231, STAT 200.	In Person Learning	Arranged	Arranged
FRE_V 394-101	FRE_V	394	101	Environment, Society and Government	W1	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 301. Equivalency: COMM 394	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
FRE_V 394-103	FRE_V	394	103	Environment, Society and Government	W1	Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 301. Equivalency: COMM 394	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.

FRE_V 420-002	FRE_V	420	002	The Economics of International Trade and the Environment	W2	Market failure and gains from trade in the presence of environmental externalities; multilateral trade and environmental agreements; case studies, including biological invasions, transport emissions, climate-induced migration, carbon leakage, ivory trade, food miles. Prerequisite: One of ECON 101, ECON 301.	In Person Learning	Mon Wed	11:30 a.m. - 1:00 p.m.
FRE_V 460-001	FRE_V	460	001	Economics of Food Consumption	W2	Microeconomics of consumer decisions and public policy in food contexts; foodborne illness; economic causes and consequences of obesity; sin taxes and prohibitions; information campaigns and advertising; labeling; food waste and ethics. Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
FRE_V 474-001	FRE_V	474	001	Causal Inference in the Economics of Natural Resource Conservation	W2	Estimating causal relationships in natural resource economics; applied data analysis; econometrics; counterfactual thinking, and applications to the economics of: natural resource conservation, species loss and extraction, protected areas, international trade of wildlife products, and endangered species legislation. Prerequisite: One of LFS 252, STAT 200, BIOL 300, ECON 326, COMM 291, FRST 231 and one of ECON 101, ECON 310.	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
FRE_V 474-L01	FRE_V	474	L01	Causal Inference in the Economics of Natural Resource Conservation	W2	Estimating causal relationships in natural resource economics; applied data analysis; econometrics; counterfactual thinking, and applications to the economics of: natural resource conservation, species loss and extraction, protected areas, international trade of wildlife products, and endangered species legislation. Prerequisite: One of LFS 252, STAT 200, BIOL 300, ECON 326, COMM 291, FRST 231 and one of ECON 101, ECON 310.	In Person Learning	Wed	3:30 p.m. - 4:30 p.m.
FRE_V 490-001	FRE_V	490	001	Current Issues in Food and Resource Economics	W1	[3-0] Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
FRE_V 490-002	FRE_V	490	002	Current Issues in Food and Resource Economics	W2	[3-0] Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
FRE_V 490-L01	FRE_V	490	L01	Current Issues in Food and Resource Economics	W2	[3-0] Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Arranged	Arranged
FRE_V 490-LXT	FRE_V	490	LXT	Current Issues in Food and Resource Economics	W1	[3-0] Prerequisite: One of ECON 101, ECON 310.	In Person Learning	Arranged	Arranged
FRE_V 500-001	FRE_V	500	001	MSc Seminar	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
FRE_V 500-002	FRE_V	500	002	MSc Seminar	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
FRE_V 500-003	FRE_V	500	003	MSc Seminar	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
FRE_V 501-001	FRE_V	501	001	Strategic Economic Analysis of Agri-Food Markets	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:30 p.m. - 4:00 p.m.
FRE_V 502-001	FRE_V	502	001	Food Market Analysis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
FRE_V 505-002	FRE_V	505	002	Agricultural and Resource Policy Analysis - Policy and Project Evaluation Tools	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
FRE_V 515-002	FRE_V	515	002	Agribusiness Management	W2	Credit will be granted for only one of FNH 415, FOOD 515 or FRE 515. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
FRE_V 516-001	FRE_V	516	001	Financial and Marketing Management in Agri-food Industries	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
FRE_V 516-L01	FRE_V	516	L01	Financial and Marketing Management in Agri-food Industries	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 11:30 a.m.
FRE_V 517-002	FRE_V	517	002	Futures Trading in Agricultural Commodities	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
FRE_V 518-002	FRE_V	518	002	Survey Design and Data Analysis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
FRE_V 520-003	FRE_V	520	003	Professional Masters Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
FRE_V 521-D_002	FRE_V	521	D	D_002	W2	Topics in Food and Resource Economics	In Person Learning	Tue Thu	2:30 p.m. - 4:00 p.m.
FRE_V 521-D_L02	FRE_V	521	D	D_L02	W2	Topics in Food and Resource Economics	In Person Learning	Wed	5:00 p.m. - 6:30 p.m.

FRE_V 521-E_002	FRE_V	521	E	E_002	Topics in Food and Resource Economics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
FRE_V 521-E_LX1	FRE_V	521	E	E_LX1	Topics in Food and Resource Economics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRE_V 521-G_002	FRE_V	521	G	G_002	Topics in Food and Resource Economics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
FRE_V 521-G_LX1	FRE_V	521	G	G_LX1	Topics in Food and Resource Economics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRE_V 521-R_001	FRE_V	521	R	R_001	Topics in Food and Resource Economics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRE_V 523-002	FRE_V	523		002	Resource Economics I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
FRE_V 526-002	FRE_V	526		002	Environmental Economics and Policy: Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FRE_V 527-002	FRE_V	527		002	Environmental Economics and Policy: Empirical Analysis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:30 p.m. - 4:00 p.m.
FRE_V 528-001	FRE_V	528		001	Applied Econometrics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.
FRE_V 528-L01	FRE_V	528		L01	Applied Econometrics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 5:30 p.m.
FRE_V 529-002	FRE_V	529		002	Estimating Econometric Models	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FRE_V 530-002	FRE_V	530		002	Econometrics with Time Series Data	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	5:30 p.m. - 7:00 p.m.
FRE_V 530-L02	FRE_V	530		L02	Econometrics with Time Series Data	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:30 p.m. - 3:30 p.m.
FRE_V 531-002	FRE_V	531		002	Global Food and Resource Governance	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
FRE_V 547-101	FRE_V	547		101	Graduating Project	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:30 p.m.
FRE_V 585-002	FRE_V	585		002	Quantitative Methods for Business and Natural Resource Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.
FRE_V 600-001	FRE_V	600		001	PhD Seminar	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
FRE_V 600-002	FRE_V	600		002	PhD Seminar	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
FRE_V 600-003	FRE_V	600		003	PhD Seminar	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
FRE_V 603-001	FRE_V	603		001	Advanced Food and Resource Economics	W1	Prerequisite: One of FRE 523, FRE 524, ECON 573	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FREN_V 101-101	FREN_V	101		101	Beginners' French I	W1	Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A1 objectives of the CEFR. Credit will be granted for only one of FREN 101 or FREN 103.	Hybrid Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
FREN_V 101-102	FREN_V	101		102	Beginners' French I	W1	Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A1 objectives of the CEFR. Credit will be granted for only one of FREN 101 or FREN 103.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FREN_V 101-103	FREN_V	101		103	Beginners' French I	W1	Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A1 objectives of the CEFR. Credit will be granted for only one of FREN 101 or FREN 103.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.





FREN_V 301-102	FREN_V	301	102	Intermediate French I	W1	Refinement of reading, writing and speaking skills through the study of contemporary literature and other authentic documents of the French-speaking world. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 12, FREN 112, FREN 202, or assignment based on placement test. Credit will be granted for only one of FREN 301 or FREN 122. Equivalency: FREN 122.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FREN_V 301-103	FREN_V	301	103	Intermediate French I	W1	Refinement of reading, writing and speaking skills through the study of contemporary literature and other authentic documents of the French-speaking world. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 12, FREN 112, FREN 202, or assignment based on placement test. Credit will be granted for only one of FREN 301 or FREN 122. Equivalency: FREN 122.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
FREN_V 301-104	FREN_V	301	104	Intermediate French I	W1	Refinement of reading, writing and speaking skills through the study of contemporary literature and other authentic documents of the French-speaking world. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 12, FREN 112, FREN 202, or assignment based on placement test. Credit will be granted for only one of FREN 301 or FREN 122. Equivalency: FREN 122.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FREN_V 301-105	FREN_V	301	105	Intermediate French I	W1	Refinement of reading, writing and speaking skills through the study of contemporary literature and other authentic documents of the French-speaking world. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 12, FREN 112, FREN 202, or assignment based on placement test. Credit will be granted for only one of FREN 301 or FREN 122. Equivalency: FREN 122.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
FREN_V 301-106	FREN_V	301	106	Intermediate French I	W1	Refinement of reading, writing and speaking skills through the study of contemporary literature and other authentic documents of the French-speaking world. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 12, FREN 112, FREN 202, or assignment based on placement test. Credit will be granted for only one of FREN 301 or FREN 122. Equivalency: FREN 122.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
FREN_V 301-W01	FREN_V	301	W01	Intermediate French I	W1	Refinement of reading, writing and speaking skills through the study of contemporary literature and other authentic documents of the French-speaking world. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 12, FREN 112, FREN 202, or assignment based on placement test. Credit will be granted for only one of FREN 301 or FREN 122. Equivalency: FREN 122.	In Person Learning	Arranged	Arranged
FREN_V 302-201	FREN_V	302	201	Intermediate French II	W2	A continuation of FREN 301. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 122, FREN 301, or assignment based on placement. Credit will be granted for only one of FREN 302 or FREN 123. Equivalency: FREN 123.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FREN_V 302-202	FREN_V	302	202	Intermediate French II	W2	A continuation of FREN 301. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 122, FREN 301, or assignment based on placement. Credit will be granted for only one of FREN 302 or FREN 123. Equivalency: FREN 123.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
FREN_V 302-203	FREN_V	302	203	Intermediate French II	W2	A continuation of FREN 301. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 122, FREN 301, or assignment based on placement. Credit will be granted for only one of FREN 302 or FREN 123. Equivalency: FREN 123.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FREN_V 302-204	FREN_V	302	204	Intermediate French II	W2	A continuation of FREN 301. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 122, FREN 301, or assignment based on placement. Credit will be granted for only one of FREN 302 or FREN 123. Equivalency: FREN 123.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
FREN_V 302-205	FREN_V	302	205	Intermediate French II	W2	A continuation of FREN 301. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 122, FREN 301, or assignment based on placement. Credit will be granted for only one of FREN 302 or FREN 123. Equivalency: FREN 123.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
FREN_V 302-W02	FREN_V	302	W02	Intermediate French II	W2	A continuation of FREN 301. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 122, FREN 301, or assignment based on placement. Credit will be granted for only one of FREN 302 or FREN 123. Equivalency: FREN 123.	In Person Learning	Arranged	Arranged
FREN_V 311-101	FREN_V	311	101	Introduction to Literature in French	W1	Critical reading of foundational literary texts in French from genres of prose fiction, non-fiction, poetry, and theatre. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
FREN_V 311-201	FREN_V	311	201	Introduction to Literature in French	W2	Critical reading of foundational literary texts in French from genres of prose fiction, non-fiction, poetry, and theatre. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FREN_V 311-W01	FREN_V	311	W01	Introduction to Literature in French	W1	Critical reading of foundational literary texts in French from genres of prose fiction, non-fiction, poetry, and theatre. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Arranged	Arranged
FREN_V 311-W02	FREN_V	311	W02	Introduction to Literature in French	W2	Critical reading of foundational literary texts in French from genres of prose fiction, non-fiction, poetry, and theatre. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Arranged	Arranged
FREN_V 321-101	FREN_V	321	101	Critical Writing	W1	Practical tools for university-level writing in French. Apply stylistic devices and rhetorical structures to form questions and arguments, analyse literary and cultural objects, and produce a variety of essay genres. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Arranged	Arranged
FREN_V 321-201	FREN_V	321	201	Critical Writing	W2	Practical tools for university-level writing in French. Apply stylistic devices and rhetorical structures to form questions and arguments, analyse literary and cultural objects, and produce a variety of essay genres. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
FREN_V 321-W01	FREN_V	321	W01	Critical Writing	W1	Practical tools for university-level writing in French. Apply stylistic devices and rhetorical structures to form questions and arguments, analyse literary and cultural objects, and produce a variety of essay genres. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Arranged	Arranged
FREN_V 321-W02	FREN_V	321	W02	Critical Writing	W2	Practical tools for university-level writing in French. Apply stylistic devices and rhetorical structures to form questions and arguments, analyse literary and cultural objects, and produce a variety of essay genres. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Arranged	Arranged
FREN_V 331-101	FREN_V	331	101	Arts, Cultures and Society from the Middle Ages to the Revolution	W1	Exploration of early French culture and literature from the Middle Ages to the close of the Early Modern period and the French Revolution; the impact of society on the arts and vice versa. Prerequisite: One of FREN 311, FREN 321 and one of FREN 224, FREN 401.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.

FREN_V 341-201	FREN_V	341	201	Arts, Cultures and Society from Romanticism to the Present Day	W2	Exploration of modern and contemporary French culture and literature from the early 19th century to the present day; the impact of society on the arts and vice versa. Prerequisite: One of FREN 311, FREN 321 and one of FREN 224, FREN 401.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
FREN_V 352-101	FREN_V	352	101	French Grammar	W1	Principles of grammar theory and contextualized French grammatical concepts. Emphasis on terminology and analysis of grammatical issues. Aligned with CEFR level B2 objectives. Recommended pre-requisite: FREN 401, FREN 402. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FREN_V 352-W01	FREN_V	352	W01	French Grammar	W1	Principles of grammar theory and contextualized French grammatical concepts. Emphasis on terminology and analysis of grammatical issues. Aligned with CEFR level B2 objectives. Recommended pre-requisite: FREN 401, FREN 402. Prerequisite: One of FREN 123, FREN 302.	In Person Learning	Arranged	Arranged
FREN_V 353-201	FREN_V	353	201	Advanced French Grammar	W2	Advanced grammar theory and critical analysis of difficult French grammatical structures. Emphasis on autonomous examination of complex grammatical issues. Recommended pre-requisite: FREN 401, FREN 402. Prerequisite: One of FREN 223, FREN 352.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
FREN_V 353-W02	FREN_V	353	W02	Advanced French Grammar	W2	Advanced grammar theory and critical analysis of difficult French grammatical structures. Emphasis on autonomous examination of complex grammatical issues. Recommended pre-requisite: FREN 401, FREN 402. Prerequisite: One of FREN 223, FREN 352.	In Person Learning	Arranged	Arranged
FREN_V 357-201	FREN_V	357	201	Translation	W2	Principles, practical strategies and methods of translation from French to English and English to French. Overview of the main challenges involved in intercultural communication. Recommended pre-requisite: FREN 353. Prerequisite: One of FREN 225, FREN 402.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FREN_V 370-101	FREN_V	370	101	Introduction to French Linguistics	W1	A survey of basic terminology, methods, problems, and theoretical trends in French linguistics, specifically designed to provide students with a foundation for advanced language study in French. Prerequisite: Either (a) FREN 223 or (b) all of FREN 352, FREN 401.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FREN_V 401-101	FREN_V	401	101	Upper-Intermediate French I	W1	Communicative proficiency at an autonomous level: vocabulary enrichment, pronunciation practice, grammatical analysis and development of efficient reading and writing techniques. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 123, FREN 302, or French Immersion 12, or assignment based on placement test.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
FREN_V 401-102	FREN_V	401	102	Upper-Intermediate French I	W1	Communicative proficiency at an autonomous level: vocabulary enrichment, pronunciation practice, grammatical analysis and development of efficient reading and writing techniques. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 123, FREN 302, or French Immersion 12, or assignment based on placement test.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FREN_V 401-103	FREN_V	401	103	Upper-Intermediate French I	W1	Communicative proficiency at an autonomous level: vocabulary enrichment, pronunciation practice, grammatical analysis and development of efficient reading and writing techniques. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 123, FREN 302, or French Immersion 12, or assignment based on placement test.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FREN_V 401-104	FREN_V	401	104	Upper-Intermediate French I	W1	Communicative proficiency at an autonomous level: vocabulary enrichment, pronunciation practice, grammatical analysis and development of efficient reading and writing techniques. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 123, FREN 302, or French Immersion 12, or assignment based on placement test.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FREN_V 401-W01	FREN_V	401	W01	Upper-Intermediate French I	W1	Communicative proficiency at an autonomous level: vocabulary enrichment, pronunciation practice, grammatical analysis and development of efficient reading and writing techniques. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 123, FREN 302, or French Immersion 12, or assignment based on placement test.	In Person Learning	Arranged	Arranged
FREN_V 402-201	FREN_V	402	201	Upper-Intermediate French II	W2	A continuation of FREN 401. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 224, FREN 401, or assignment based on placement test.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FREN_V 402-202	FREN_V	402	202	Upper-Intermediate French II	W2	A continuation of FREN 401. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 224, FREN 401, or assignment based on placement test.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
FREN_V 402-203	FREN_V	402	203	Upper-Intermediate French II	W2	A continuation of FREN 401. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 224, FREN 401, or assignment based on placement test.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
FREN_V 402-W02	FREN_V	402	W02	Upper-Intermediate French II	W2	A continuation of FREN 401. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 224, FREN 401, or assignment based on placement test.	In Person Learning	Arranged	Arranged
FREN_V 410-201	FREN_V	410	201	Enlightenment and Revolution: Studies in 18th-century French Literature	W2	Aesthetic and ideological trends of eighteenth-century French literature in their historical context. Prerequisite: Either (a) all of FREN 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FREN_V 414-101	FREN_V	414	101	The Modern and Contemporary French Novel	W1	Major historical, social and artistic movements reflected in representative novels published in France from the 19th Century to the present. Prerequisite: Either (a) all of FREN 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Arranged	Arranged
FREN_V 415-201	FREN_V	415	201	French Digital Culture	W2	Contemporary issues and debates on how media and digital technologies have impacted French culture and society. Examines how text, language, and writing are used in digital media. Prerequisite: Either (a) all of FREN 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FREN_V 416-101	FREN_V	416	101	Contemporary French Literature and Culture	W1	Aesthetic and ideological trends of twentieth- and twenty-first century French literature in their historical context. Prerequisite: Either (a) all of FREN 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
FREN_V 418-101	FREN_V	418	101	African and Caribbean Francophone Literatures	W1	Representative and contemporary writings from African and Caribbean francophone cultures. Prerequisite: Either (a) all of FREN 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Arranged	Arranged

FREN_V 420-201	FREN_V	420	201	Selected Topics in French Literature and Culture	W2	Study of a literary or cultural topic that extends beyond one chronological period and/or place proper. Consult the Department for this year's offerings. Prerequisite: Either (a) all of FREN 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
FREN_V 428-101	FREN_V	428	101	Francophone Cinema	W1	Study of major past and contemporary film productions from around the Francophone world. Prerequisite: Either (a) all of FREN 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
FREN_V 477-201	FREN_V	477	201	Contemporary Varieties of French	W2	Study of the different varieties (or dialects) of contemporary French and issues related to French-speaking communities around the world. Prerequisite: FREN 353 and one of FREN 353, FREN 225.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
FREN_V 495-101	FREN_V	495	101	Research Seminar in French Literature and Culture	W1	Research on critical topics related to French literature and culture. Consult the Department for this year's offerings. Prerequisite: One of FREN 321, FREN 328, FREN 329 and one of FREN 225, FREN 402.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.	
FREN_V 499-101	FREN_V	499	101	Honours Essay	W1	Restriction: this course is restricted to students in one of these programs: BA in fourth-year with one of these specializations: HON FREN or HON RMST.	In Person Learning	Arranged	Arranged	
FREN_V 499-201	FREN_V	499	201	Honours Essay	W2	Restriction: this course is restricted to students in one of these programs: BA in fourth-year with one of these specializations: HON FREN or HON RMST.	In Person Learning	Arranged	Arranged	
FREN_V 502-A_101	FREN_V	502	A	A_101	Studies in Sixteenth-Century French Literature	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
FREN_V 507-B_201	FREN_V	507	B	B_201	Studies in the French Enlightenment	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
FREN_V 513-A_101	FREN_V	513	A	A_101	Studies in French-Canadian Literature	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
FREN_V 521-A_201	FREN_V	521	A	A_201	Studies in Francophone Literatures and Cultures	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
FREN_V 591-101	FREN_V	591	101	Proseminar I: Research Skills and Scholarly Practices	W1	Credit will only be granted for only one of SPAN 591 or FREN 591. This course is not eligible for Credit/D/Fail grading. Equivalency: SPAN 591	In Person Learning	Wed (Alternate weeks)	3:00 p.m. - 6:00 p.m.	
FREN_V 592-201	FREN_V	592	201	Proseminar II: Literary and Cultural Theory	W2	Credit will be granted for only one of FREN 592 or SPAN 592. This course is not eligible for Credit/D/Fail grading. Prerequisite: FREN 591. Equivalency: SPAN 592.	In Person Learning	Wed (Alternate weeks)	3:00 p.m. - 6:00 p.m.	
FREN_V 599-A_001	FREN_V	599	A	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FREN_V 599-A_101	FREN_V	599	A	A_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FREN_V 599-A_201	FREN_V	599	A	A_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FREN_V 599-B_201	FREN_V	599	B	B_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FREN_V 699-001	FREN_V	699	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
FREN_V 699-101	FREN_V	699	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
FREN_V 699-201	FREN_V	699	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
FRST_V 100-101	FRST_V	100	101	Sustainable Forests	W1	An overview of forests and forestry. Survey of the disciplines, areas of study, and values that frame sustainable management of forests in BC and the world. Assignments focus on critical thinking and written communication skills. [3-0-0]	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
FRST_V 101-201	FRST_V	101	201	Principles of Microeconomics for Forestry and Land and Food Systems	W2	Principles of microeconomics and their applications in forestry and land and food systems. The basic concept of the economy to focus on private and social decision making related to the use of land, especially in agriculture, forestry, and conservation. Credit will be granted for only one of FRST 101, ECON 101, or LFS 101. [3-0-1] Equivalency: LFS101, ECON101	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.	
FRST_V 107-001	FRST_V	107	001	Introduction to Forestry Co-op	W1-2	An introduction to Forestry Co-op including: completion of preemployment workshops, career skills toolkits, networking opportunities, interview training, individual coaching sessions, and job search skills. Restricted to students meeting the requirements of the Faculty of Forestry Co-operative Education Program. Pass/fail.	In Person Learning	Arranged	Arranged	

FRST_V 110-101	FRST_V	110	101	Land One: First-year Integrative Seminar	W1-2	Current issues and cases in Forestry and Land and Food Systems are examined with a focus on integration of first-year subjects and exposure to both First Nations and Western perspectives. This course is not eligible for Credit/D/Fail grading. [1-1-1] Equivalency: LFS 110	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
FRST_V 110-L01	FRST_V	110	L01	Land One: First-year Integrative Seminar	W1-2	Current issues and cases in Forestry and Land and Food Systems are examined with a focus on integration of first-year subjects and exposure to both First Nations and Western perspectives. This course is not eligible for Credit/D/Fail grading. [1-1-1] Equivalency: LFS 110	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
FRST_V 110-T01	FRST_V	110	T01	Land One: First-year Integrative Seminar	W1-2	Current issues and cases in Forestry and Land and Food Systems are examined with a focus on integration of first-year subjects and exposure to both First Nations and Western perspectives. This course is not eligible for Credit/D/Fail grading. [1-1-1] Equivalency: LFS 110	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
FRST_V 200-101	FRST_V	200	101	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: NRES 200	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FRST_V 200-L01	FRST_V	200	L01	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: NRES 200	In Person Learning	Tue	8:00 a.m. - 10:00 a.m.
FRST_V 200-L02	FRST_V	200	L02	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: NRES 200	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
FRST_V 200-L03	FRST_V	200	L03	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: NRES 200	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
FRST_V 200-L04	FRST_V	200	L04	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: NRES 200	In Person Learning	Thu	8:00 a.m. - 10:00 a.m.
FRST_V 200-L05	FRST_V	200	L05	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: NRES 200	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
FRST_V 200-L06	FRST_V	200	L06	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: NRES 200	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
FRST_V 201-101	FRST_V	201	101	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Equivalency: NRES 201	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
FRST_V 201-L01	FRST_V	201	L01	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Equivalency: NRES 201	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
FRST_V 201-L02	FRST_V	201	L02	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Equivalency: NRES 201	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
FRST_V 201-L03	FRST_V	201	L03	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Equivalency: NRES 201	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
FRST_V 201-L04	FRST_V	201	L04	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Equivalency: NRES 201	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
FRST_V 201-L05	FRST_V	201	L05	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Equivalency: NRES 201	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
FRST_V 201-L06	FRST_V	201	L06	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Equivalency: NRES 201	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
FRST_V 210-201	FRST_V	210	201	Forest Plant Biology II	W2	The functional biology of trees and other forest plants in their environment, with an emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of FRST 200, NRES 200. Equivalency: NRES 210.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
FRST_V 210-L01	FRST_V	210	L01	Forest Plant Biology II	W2	The functional biology of trees and other forest plants in their environment, with an emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of FRST 200, NRES 200. Equivalency: NRES 210.	In Person Learning	Tue	8:00 a.m. - 10:00 a.m.
FRST_V 210-L02	FRST_V	210	L02	Forest Plant Biology II	W2	The functional biology of trees and other forest plants in their environment, with an emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of FRST 200, NRES 200. Equivalency: NRES 210.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
FRST_V 210-L03	FRST_V	210	L03	Forest Plant Biology II	W2	The functional biology of trees and other forest plants in their environment, with an emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of FRST 200, NRES 200. Equivalency: NRES 210.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.

FRST_V 210-L04	FRST_V	210	L04	Forest Plant Biology II	W2	The functional biology of trees and other forest plants in their environment, with an emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of FRST 200, NRES 200. Equivalency: NRES 210.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
FRST_V 210-L05	FRST_V	210	L05	Forest Plant Biology II	W2	The functional biology of trees and other forest plants in their environment, with an emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of FRST 200, NRES 200. Equivalency: NRES 210.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
FRST_V 211-201	FRST_V	211	201	Forest Classification and Silvics	W2	Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimatic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
FRST_V 211-L01	FRST_V	211	L01	Forest Classification and Silvics	W2	Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimatic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211	In Person Learning	Tue	8:00 a.m. - 10:00 a.m.
FRST_V 211-L02	FRST_V	211	L02	Forest Classification and Silvics	W2	Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimatic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
FRST_V 211-L03	FRST_V	211	L03	Forest Classification and Silvics	W2	Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimatic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
FRST_V 211-L04	FRST_V	211	L04	Forest Classification and Silvics	W2	Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimatic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
FRST_V 211-L05	FRST_V	211	L05	Forest Classification and Silvics	W2	Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimatic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
FRST_V 231-101	FRST_V	231	101	Introduction to Biometrics	W1	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
FRST_V 231-201	FRST_V	231	201	Introduction to Biometrics	W2	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 231-99A	FRST_V	231	99A	Introduction to Biometrics	W1	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Arranged	Arranged
FRST_V 231-99C	FRST_V	231	99C	Introduction to Biometrics	W1	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Arranged	Arranged
FRST_V 231-L01	FRST_V	231	L01	Introduction to Biometrics	W1	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
FRST_V 231-L02	FRST_V	231	L02	Introduction to Biometrics	W1	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
FRST_V 231-L03	FRST_V	231	L03	Introduction to Biometrics	W1	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
FRST_V 231-LA1	FRST_V	231	LA1	Introduction to Biometrics	W2	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.

FRST_V 231-LA2	FRST_V	231	LA2	Introduction to Biometrics	W2	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
FRST_V 232-101	FRST_V	232	101	Computer Applications in Forestry	W1	Techniques involved in solving forestry problems with microcomputers using word processing, spreadsheet, procedural language, and database management tools. Credit will be granted for only one of NRES 232 or FRST 232. [3-2] Equivalency: NRES 232	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
FRST_V 232-201	FRST_V	232	201	Computer Applications in Forestry	W2	Techniques involved in solving forestry problems with microcomputers using word processing, spreadsheet, procedural language, and database management tools. Credit will be granted for only one of NRES 232 or FRST 232. [3-2] Equivalency: NRES 232	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FRST_V 232-L02	FRST_V	232	L02	Computer Applications in Forestry	W1	Techniques involved in solving forestry problems with microcomputers using word processing, spreadsheet, procedural language, and database management tools. Credit will be granted for only one of NRES 232 or FRST 232. [3-2] Equivalency: NRES 232	In Person Learning	Wed	5:00 p.m. - 7:00 p.m.
FRST_V 232-L03	FRST_V	232	L03	Computer Applications in Forestry	W1	Techniques involved in solving forestry problems with microcomputers using word processing, spreadsheet, procedural language, and database management tools. Credit will be granted for only one of NRES 232 or FRST 232. [3-2] Equivalency: NRES 232	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
FRST_V 232-LA1	FRST_V	232	LA1	Computer Applications in Forestry	W2	Techniques involved in solving forestry problems with microcomputers using word processing, spreadsheet, procedural language, and database management tools. Credit will be granted for only one of NRES 232 or FRST 232. [3-2] Equivalency: NRES 232	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
FRST_V 232-LA3	FRST_V	232	LA3	Computer Applications in Forestry	W2	Techniques involved in solving forestry problems with microcomputers using word processing, spreadsheet, procedural language, and database management tools. Credit will be granted for only one of NRES 232 or FRST 232. [3-2] Equivalency: NRES 232	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
FRST_V 239-201	FRST_V	239	201	Tree and Stand Level Measurements	W2	An introduction to measurement of individual trees and stands; use of aerial photographs, maps, and various measurement instruments. [3-2-0] Prerequisite: One of FRST 231, NRES 231 and one of FRST 232, NRES 232.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
FRST_V 239-L01	FRST_V	239	L01	Tree and Stand Level Measurements	W2	An introduction to measurement of individual trees and stands; use of aerial photographs, maps, and various measurement instruments. [3-2-0] Prerequisite: One of FRST 231, NRES 231 and one of FRST 232, NRES 232.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
FRST_V 239-L02	FRST_V	239	L02	Tree and Stand Level Measurements	W2	An introduction to measurement of individual trees and stands; use of aerial photographs, maps, and various measurement instruments. [3-2-0] Prerequisite: One of FRST 231, NRES 231 and one of FRST 232, NRES 232.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
FRST_V 248-101	FRST_V	248	101	Co-operative Work Placement.	W1	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Orientation workshops required. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 248-201	FRST_V	248	201	Co-operative Work Placement.	W2	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Orientation workshops required. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 302-201	FRST_V	302	201	Forest Genetics	W2	Population genetics and conservation of genetic resources; principles of genetics and their application to forestry. [2-2]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
FRST_V 302-202	FRST_V	302	202	Forest Genetics	W2	Population genetics and conservation of genetic resources; principles of genetics and their application to forestry. [2-2]	Online Learning	Arranged	Arranged
FRST_V 303-101	FRST_V	303	101	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-102	FRST_V	303	102	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-103	FRST_V	303	103	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-104	FRST_V	303	104	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-105	FRST_V	303	105	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-106	FRST_V	303	106	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-107	FRST_V	303	107	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-108	FRST_V	303	108	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

FRST_V 303-109	FRST_V	303	109	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 303-110	FRST_V	303	110	Principles of Forest Science	W1	Introduction to growth of trees and forests with emphasis on evolutionary, ecological and environmental aspects. Not available for credit to undergraduate students in the Faculty of Forestry. [3-0-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 304-201	FRST_V	304	201	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-202	FRST_V	304	202	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-203	FRST_V	304	203	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-204	FRST_V	304	204	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-205	FRST_V	304	205	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-206	FRST_V	304	206	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-207	FRST_V	304	207	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-208	FRST_V	304	208	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-209	FRST_V	304	209	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 304-210	FRST_V	304	210	Forest Stewardship in a Changing Climate	W2	Forests can provide natural solutions to climate change and social well-being through innovative management and restoration including protection of mother trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]	Online Learning	Arranged	Arranged
FRST_V 305-101	FRST_V	305	101	Silviculture	W1	Silviculture concepts and principles; stand dynamics; artificial and natural regeneration; cultural techniques for forest stand establishment and stand tending; silvicultural systems; decision making and development of prescriptions; connections to forest planning. [3-4*] Prerequisite: One of FRST 201, NRES 201 and one of FRST 350, FRST 351, UFOR 400.	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
FRST_V 305-L01	FRST_V	305	L01	Silviculture	W1	Silviculture concepts and principles; stand dynamics; artificial and natural regeneration; cultural techniques for forest stand establishment and stand tending; silvicultural systems; decision making and development of prescriptions; connections to forest planning. [3-4*] Prerequisite: One of FRST 201, NRES 201 and one of FRST 350, FRST 351, UFOR 400.	In Person Learning	Mon	1:30 p.m. - 2:30 p.m.
FRST_V 307-101	FRST_V	307	101	Biotic Disturbances	W1	Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potentials in a scenario of climate change. [3-3-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
FRST_V 307-L01	FRST_V	307	L01	Biotic Disturbances	W1	Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potentials in a scenario of climate change. [3-3-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
FRST_V 307-L02	FRST_V	307	L02	Biotic Disturbances	W1	Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potentials in a scenario of climate change. [3-3-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
FRST_V 307-L03	FRST_V	307	L03	Biotic Disturbances	W1	Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potentials in a scenario of climate change. [3-3-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
FRST_V 310-001	FRST_V	310	001	Soil Biology	W2	The diversity and interactions of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and reclamation; responses to environmental change. [2-3-0] Prerequisite: BIOL 121. Equivalency: APBI342	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
FRST_V 310-L01	FRST_V	310	L01	Soil Biology	W2	The diversity and interactions of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and reclamation; responses to environmental change. [2-3-0] Prerequisite: BIOL 121. Equivalency: APBI342	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.

FRST_V 311-101	FRST_V	311	101	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. CHEM 203, CHEM 213, or CHEM 233 and CHEM 235 is recommended. [3-3-0] Equivalency: BIOL351, APBI351	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FRST_V 311-L10	FRST_V	311	L10	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. CHEM 203, CHEM 213, or CHEM 233 and CHEM 235 is recommended. [3-3-0] Equivalency: BIOL351, APBI351	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
FRST_V 311-L11	FRST_V	311	L11	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. CHEM 203, CHEM 213, or CHEM 233 and CHEM 235 is recommended. [3-3-0] Equivalency: BIOL351, APBI351	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
FRST_V 311-L12	FRST_V	311	L12	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. CHEM 203, CHEM 213, or CHEM 233 and CHEM 235 is recommended. [3-3-0] Equivalency: BIOL351, APBI351	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
FRST_V 311-L13	FRST_V	311	L13	Plant Physiology I	W1	Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. CHEM 203, CHEM 213, or CHEM 233 and CHEM 235 is recommended. [3-3-0] Equivalency: BIOL351, APBI351	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
FRST_V 318-201	FRST_V	318	201	Forest and Conservation Economics	W2	Practical problem solving of economic issues related to forestry and conservation, touching on investment analysis, capital budgeting, non-timber economics, ecosystem services, and forest certification. Completion of FRST 232 or NRES 232 or intermediate knowledge of MS Excel essential. [2-3-0] Prerequisite: One of ECON 101, FRST 101.	In Person Learning	Tue Thu	6:00 p.m. - 7:30 p.m.
FRST_V 318-L01	FRST_V	318	L01	Forest and Conservation Economics	W2	Practical problem solving of economic issues related to forestry and conservation, touching on investment analysis, capital budgeting, non-timber economics, ecosystem services, and forest certification. Completion of FRST 232 or NRES 232 or intermediate knowledge of MS Excel essential. [2-3-0] Prerequisite: One of ECON 101, FRST 101.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
FRST_V 318-L02	FRST_V	318	L02	Forest and Conservation Economics	W2	Practical problem solving of economic issues related to forestry and conservation, touching on investment analysis, capital budgeting, non-timber economics, ecosystem services, and forest certification. Completion of FRST 232 or NRES 232 or intermediate knowledge of MS Excel essential. [2-3-0] Prerequisite: One of ECON 101, FRST 101.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
FRST_V 318-L03	FRST_V	318	L03	Forest and Conservation Economics	W2	Practical problem solving of economic issues related to forestry and conservation, touching on investment analysis, capital budgeting, non-timber economics, ecosystem services, and forest certification. Completion of FRST 232 or NRES 232 or intermediate knowledge of MS Excel essential. [2-3-0] Prerequisite: One of ECON 101, FRST 101.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
FRST_V 320-101	FRST_V	320	101	Abiotic Disturbances: Fire and Climate	W1	Ecological effects of fire and climatic (wind, temperature, and snow) disturbances; fire danger rating, principles of fire management and prescribed fire use; windthrow risk modelling and management. [3-2-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
FRST_V 320-L01	FRST_V	320	L01	Abiotic Disturbances: Fire and Climate	W1	Ecological effects of fire and climatic (wind, temperature, and snow) disturbances; fire danger rating, principles of fire management and prescribed fire use; windthrow risk modelling and management. [3-2-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
FRST_V 320-L02	FRST_V	320	L02	Abiotic Disturbances: Fire and Climate	W1	Ecological effects of fire and climatic (wind, temperature, and snow) disturbances; fire danger rating, principles of fire management and prescribed fire use; windthrow risk modelling and management. [3-2-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
FRST_V 339-201	FRST_V	339	201	Forest Level Measurement and Productivity	W2	Obtaining and forecasting information for stands and forests. [3-2-0] Prerequisite: FRST 239.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
FRST_V 339-L01	FRST_V	339	L01	Forest Level Measurement and Productivity	W2	Obtaining and forecasting information for stands and forests. [3-2-0] Prerequisite: FRST 239.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
FRST_V 346-101	FRST_V	346	101	Co-operative Work Placement.	W1	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 346-201	FRST_V	346	201	Co-operative Work Placement.	W2	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 347-101	FRST_V	347	101	Co-operative Work Placement	W1	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 347-201	FRST_V	347	201	Co-operative Work Placement	W2	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 348-101	FRST_V	348	101	Co-operative Work Placement.	W1	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 348-201	FRST_V	348	201	Co-operative Work Placement.	W2	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 350-101	FRST_V	350	101	Foundational Field School	W1	Field study concentrating on outdoor skills, forest measurements, site diagnosis, and an integrated overview of the ecological, social and economic basis for forest management. Fees will be assessed to meet expenses. Credit will be granted for only one of FRST 350 or 351. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FRST 201, NRES 201.	In Person Learning	Arranged	Arranged
FRST_V 351-101	FRST_V	351	101	Interior Field School	W1	Field study at an interior BC location concentrating on land use, management and silviculture. Fees will be assessed to meet expenses. Students with FRST 351 and FRST 350 can only count 2 credits toward their program requirements. Prerequisite: FRST 210 or NRES 210 Corequisite: FRST 211 or NRES 211	In Person Learning	Arranged	Arranged

FRST_V 351-102	FRST_V	351	102	Interior Field School	W1	Field study at an interior BC location concentrating on land use, management and silviculture. Fees will be assessed to meet expenses. Students with FRST 351 and FRST 350 can only count 2 credits toward their program requirements. Prerequisite: FRST 210 or NRES 210 Corequisite: FRST 211 or NRES 211	In Person Learning	Arranged	Arranged
FRST_V 370-101	FRST_V	370	101	Community Forests and Community Forestry	W1	Community forests and community forestry throughout the world, with special attention to participation by aboriginal peoples; emphasis is on forms of governance, public participation, and adaptive learning. [3-0-0]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FRST_V 385-101	FRST_V	385	101	Watershed Hydrology	W1	Measurement and analysis of hydrological processes in response to forest management activities. [3-2-0] Prerequisite: Third- or fourth-year standing.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
FRST_V 385-L01	FRST_V	385	L01	Watershed Hydrology	W1	Measurement and analysis of hydrological processes in response to forest management activities. [3-2-0] Prerequisite: Third- or fourth-year standing.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
FRST_V 385-L02	FRST_V	385	L02	Watershed Hydrology	W1	Measurement and analysis of hydrological processes in response to forest management activities. [3-2-0] Prerequisite: Third- or fourth-year standing.	In Person Learning	Thu	12:30 p.m. - 2:30 p.m.
FRST_V 385-L03	FRST_V	385	L03	Watershed Hydrology	W1	Measurement and analysis of hydrological processes in response to forest management activities. [3-2-0] Prerequisite: Third- or fourth-year standing.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
FRST_V 385-L04	FRST_V	385	L04	Watershed Hydrology	W1	Measurement and analysis of hydrological processes in response to forest management activities. [3-2-0] Prerequisite: Third- or fourth-year standing.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
FRST_V 386-201	FRST_V	386	201	Aquatic Ecosystems and Fish in Forested Watersheds	W2	Effects of forest management activities on fish and aquatic ecosystems. [3-2-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
FRST_V 386-L01	FRST_V	386	L01	Aquatic Ecosystems and Fish in Forested Watersheds	W2	Effects of forest management activities on fish and aquatic ecosystems. [3-2-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
FRST_V 386-L02	FRST_V	386	L02	Aquatic Ecosystems and Fish in Forested Watersheds	W2	Effects of forest management activities on fish and aquatic ecosystems. [3-2-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
FRST_V 386-L03	FRST_V	386	L03	Aquatic Ecosystems and Fish in Forested Watersheds	W2	Effects of forest management activities on fish and aquatic ecosystems. [3-2-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
FRST_V 386-L04	FRST_V	386	L04	Aquatic Ecosystems and Fish in Forested Watersheds	W2	Effects of forest management activities on fish and aquatic ecosystems. [3-2-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
FRST_V 386-L05	FRST_V	386	L05	Aquatic Ecosystems and Fish in Forested Watersheds	W2	Effects of forest management activities on fish and aquatic ecosystems. [3-2-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
FRST_V 395-101	FRST_V	395	101	Wildlife Ecology and Management	W1	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 395-201	FRST_V	395	201	Wildlife Ecology and Management	W2	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
FRST_V 395-L01	FRST_V	395	L01	Wildlife Ecology and Management	W1	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
FRST_V 395-L02	FRST_V	395	L02	Wildlife Ecology and Management	W1	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
FRST_V 395-L03	FRST_V	395	L03	Wildlife Ecology and Management	W1	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
FRST_V 395-L04	FRST_V	395	L04	Wildlife Ecology and Management	W1	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
FRST_V 395-L05	FRST_V	395	L05	Wildlife Ecology and Management	W1	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
FRST_V 395-LA1	FRST_V	395	LA1	Wildlife Ecology and Management	W2	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
FRST_V 395-LA2	FRST_V	395	LA2	Wildlife Ecology and Management	W2	Ecology, management, and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest-dwelling species of mammals, birds, amphibians and reptiles. [3-2-0] Prerequisite: One of FRST 201, BIOL 230, BIOL 306.	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.

FRST_V 399-001	FRST_V	399	001	Introduction to Research Methods	W2	Lectures and seminars in research philosophies and the scientific method, with special emphasis on field research. [2-1] Prerequisite: One of FRST 150, LFS 150, NRES 150, WRDS 150, ENGL 110, ENGL 111, WOOD 225, NRES 225.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
FRST_V 402-001	FRST_V	402	001	Living Language: Science and Society	W1	Multi-disciplinary course in which students, individually and in groups, examine, integrate and apply subject-specific knowledge through the lens of language and the framework of the language sciences, with a focus on themes of real-world importance. Prerequisite: Fourth-year standing or permission of the instructor. Equivalency: APSC402, ASTU402, LFS 402, LLED402, PHAR402	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
FRST_V 408-201	FRST_V	408	201	Advanced Forest Insect Ecology	W2	Role of climate and climate change in the population dynamics, outbreak potentials and resultant impacts to forest ecosystems associated with herbivorous forest insects. [3-0-0] Prerequisite: One of FRST 307, APBI 327, BIOL 327.	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.
FRST_V 411-101	FRST_V	411	101	Complex Adaptive Systems, Global Change Science, and Ecology Sustainability	W1	Concepts of complex adaptive systems (CAS); exploration of how CAS can be used to manage natural and social environments for multiple goals under changing climatic and socio-economic conditions. [3-0-0] Prerequisite: Third-year standing	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
FRST_V 413-101	FRST_V	413	101	Ecological Plant Biochemistry.	W2	The structure, biosynthesis, distribution and biological function of secondary plant metabolites. [3-0-0] Prerequisite: Either (a) all of BIOL 200, BIOL 201 and one of BIOL 209, BIOL 210; or (b) one of FRST 200, NRES 200 and one of FRST 210, NRES 210. Equivalency: BIOL462	In Person Learning	Wed	8:00 a.m. - 11:00 a.m.
FRST_V 415-101	FRST_V	415	101	Sustainable Forest Policy	W1	The development, implementation, and analysis of forest policy. [3-0-0] Prerequisite: Third- or fourth-year standing.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 422-101	FRST_V	422	101	Mathematical Modelling in Forest Resource Analysis	W1	Modelling techniques used in strategic and tactical forest resources analyses. [2-0-3] Prerequisite: Fourth-year standing in the BSF degree.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
FRST_V 422-99A	FRST_V	422	99A	Mathematical Modelling in Forest Resource Analysis	W1	Modelling techniques used in strategic and tactical forest resources analyses. [2-0-3] Prerequisite: Fourth-year standing in the BSF degree.	In Person Learning	Arranged	Arranged
FRST_V 422-T01	FRST_V	422	T01	Mathematical Modelling in Forest Resource Analysis	W1	Modelling techniques used in strategic and tactical forest resources analyses. [2-0-3] Prerequisite: Fourth-year standing in the BSF degree.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
FRST_V 422-T02	FRST_V	422	T02	Mathematical Modelling in Forest Resource Analysis	W1	Modelling techniques used in strategic and tactical forest resources analyses. [2-0-3] Prerequisite: Fourth-year standing in the BSF degree.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
FRST_V 423-201	FRST_V	423	201	Forest Management Planning	W2	Forest management designs to identify and integrate economic, social, and environmental objectives across a forested landscape both strategically and tactically. [4-2-2] Prerequisite: FRST 422.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
FRST_V 423-L01	FRST_V	423	L01	Forest Management Planning	W2	Forest management designs to identify and integrate economic, social, and environmental objectives across a forested landscape both strategically and tactically. [4-2-2] Prerequisite: FRST 422.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
FRST_V 423-L02	FRST_V	423	L02	Forest Management Planning	W2	Forest management designs to identify and integrate economic, social, and environmental objectives across a forested landscape both strategically and tactically. [4-2-2] Prerequisite: FRST 422.	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
FRST_V 423-T01	FRST_V	423	T01	Forest Management Planning	W2	Forest management designs to identify and integrate economic, social, and environmental objectives across a forested landscape both strategically and tactically. [4-2-2] Prerequisite: FRST 422.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
FRST_V 430-101	FRST_V	430	101	Advanced Biometrics	W1	Analysis of variance, multiple regression and analysis of covariance. Design and analysis of experiments. [3-2] Prerequisite: One of FRST 231, NRES 231, BIOL 300, STAT 200. And FRST 399 or equivalent. Restricted to students with 4th year standing or by permission of instructor.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FRST_V 430-L01	FRST_V	430	L01	Advanced Biometrics	W1	Analysis of variance, multiple regression and analysis of covariance. Design and analysis of experiments. [3-2] Prerequisite: One of FRST 231, NRES 231, BIOL 300, STAT 200. And FRST 399 or equivalent. Restricted to students with 4th year standing or by permission of instructor.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
FRST_V 436-001	FRST_V	436	001	Growth and Yield	W2	Techniques of growth and yield projection and discussion of modelling approaches. Exploration of stand dynamics, quantitative implications of management treatments and environmental limitations to tree and stand growth. [2-2-0] Prerequisite: FRST339	In Person Learning	Wed Fri	1:00 p.m. - 2:30 p.m.
FRST_V 439-101	FRST_V	439	101	International Forestry	W1	The socio-economic, biological and technological aspects of forestry within the international frame, in both the developed and developing world. Regional studies and the role of national and international agencies. [2-2-0]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
FRST_V 443-201	FRST_V	443	201	Remote Sensing for Ecosystem Management	W2	Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-0]	In Person Learning	Thu	8:00 a.m. - 10:00 a.m.
FRST_V 443-LA1	FRST_V	443	LA1	Remote Sensing for Ecosystem Management	W2	Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-0]	In Person Learning	Tue	8:00 a.m. - 10:00 a.m.
FRST_V 443-LA2	FRST_V	443	LA2	Remote Sensing for Ecosystem Management	W2	Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-0]	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
FRST_V 443-LA3	FRST_V	443	LA3	Remote Sensing for Ecosystem Management	W2	Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-0]	In Person Learning	Wed	6:00 p.m. - 8:00 p.m.

FRST_V 443-LA4	FRST_V	443	LA4	Remote Sensing for Ecosystem Management	W2	Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-0]	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.	
FRST_V 444-101	FRST_V	444	101	Agroforestry	W1	Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and groupwork designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalency: APBI444	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.	
FRST_V 444-610	FRST_V	444	610	Agroforestry	W1	Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and groupwork designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalency: APBI444	In Person Learning	Arranged	Arranged	
FRST_V 444-T01	FRST_V	444	T01	Agroforestry	W1	Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and groupwork designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalency: APBI444	In Person Learning	Arranged	Arranged	
FRST_V 446-101	FRST_V	446	101	Co-operative Work Placement.	W1	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 446-201	FRST_V	446	201	Co-operative Work Placement.	W2	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 447-101	FRST_V	447	101	Co-operative Work Placement.	W1	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 447-201	FRST_V	447	201	Co-operative Work Placement.	W2	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 448-101	FRST_V	448	101	Co-operative Work Placement.	W1	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 448-201	FRST_V	448	201	Co-operative Work Placement.	W2	Supervised work experience in an approved organization for a minimum of 15 weeks. Restricted to students in the Co-operative Education Program in the Faculty of Forestry. Final work term report required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 449-C_101	FRST_V	449	C	C_101	Directed Studies in Forestry	W1	In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in forestry. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 449-C_201	FRST_V	449	C	C_201	Directed Studies in Forestry	W2	In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in forestry. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 449-C_202	FRST_V	449	C	C_202	Directed Studies in Forestry	W2	In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in forestry. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
FRST_V 449-F_001	FRST_V	449	F	F_001	Directed Studies in Forestry	W1-2	In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in forestry. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 452-201	FRST_V	452	201	Coastal Field School	W2	Site diagnosis and preparation of management options in coastal forests. Extrasessional course; fees will be assessed to meet expenses. Prerequisite: Third or fourth year-standing in the B.S.F. program.	In Person Learning	Arranged	Arranged	
FRST_V 490-101	FRST_V	490	101	Visual Resource Management and Planning for Aesthetics	W2	Methodologies for visual analysis, perceptions, planning & management of urban, natural and working landscapes, and implications for sustainable land-use management & community engagement. Credit will be granted for only one of FRST 490 or FRST 551. [2-2] Prerequisite: Third-year standing. Equivalency: LARC542	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.	
FRST_V 490-201	FRST_V	490	201	Visual Resource Management and Planning for Aesthetics	W2	Methodologies for visual analysis, perceptions, planning & management of urban, natural and working landscapes, and implications for sustainable land-use management & community engagement. Credit will be granted for only one of FRST 490 or FRST 551. [2-2] Prerequisite: Third-year standing. Equivalency: LARC542	In Person Learning	Arranged	Arranged	
FRST_V 492-201	FRST_V	492	201	Environmental Perception	W2	How individuals perceive their environment. Emphasis will be given visual perception in the context of natural resource issues and the effects of those perceptions on individuals including issues of human wellbeing. [3-0-0] Prerequisite: Third-year standing	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.	
FRST_V 495-201	FRST_V	495	201	Biological Diversity and Conservation	W2	Principles, problems, and practices of managing natural habitats for biological diversity; current issues in biological diversity important to researchers, policymakers, and the general public. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: One of FRST 201, NRES 201 and FRST 395.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
FRST_V 497-101	FRST_V	497	101	Communications and Professionalism	W1	Preparing professional reports and presentations; professionalism and professional ethics. [2-0-2] Prerequisite: Fourth-year standing.	In Person Learning	Wed Fri	9:00 a.m. - 11:00 a.m.	
FRST_V 498-001	FRST_V	498	001	B.Sc. Thesis in Forestry	W1-2	An independent study or research project of a subject of special interest to the student under the direction of a staff member. Available only to students in the BSFS Honours specialization.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.	
FRST_V 498-101	FRST_V	498	101	B.Sc. Thesis in Forestry	W1	An independent study or research project of a subject of special interest to the student under the direction of a staff member. Available only to students in the BSFS Honours specialization.	In Person Learning	Arranged	Arranged	
FRST_V 498-610	FRST_V	498	610	B.Sc. Thesis in Forestry	W1-2	An independent study or research project of a subject of special interest to the student under the direction of a staff member. Available only to students in the BSFS Honours specialization.	In Person Learning	Arranged	Arranged	

FRST_V 499-101	FRST_V	499		101	B.S.F. Thesis	W1-2	An independent study or research project on an approved topic, developed under the guidance of a Faculty member. Available only to students in their graduating year.	In Person Learning	Arranged	Arranged
FRST_V 500-101	FRST_V	500		101	Teaching and Learning in Forestry	W1	An evidence-based examination of teaching and learning in forestry, focusing on instructional design, classroom practices and field instruction. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 2:30 p.m.
FRST_V 503-101	FRST_V	503		101	Plant Molecular Biology Laboratory	W1	Techniques of purification, cloning, sequencing, restriction-hybridization analysis of plant nucleic acids, in-vitro labeling of plant nucleic acids and proteins, and electrophoresis and immunodetection of plant proteins. Offered by the Biotechnology Teaching Laboratory in cooperation with the Department of Forest and Conservation Sciences. Admission to the course is limited and requires recommendation from the department head. This course is not eligible for Credit/D/Fail grading. Equivalency: PLNT540, BOTA544	In Person Learning	Thu	10:00 a.m. - 4:00 p.m.
FRST_V 505-C_101	FRST_V	505	C	C_101	Directed Studies in Forest Science	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 506-201	FRST_V	506		201	Advanced Forest Pathology	W2	Hereditary, physiological, anatomical, environmental, and microbiological factors influencing forest tree diseases. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
FRST_V 507-A_101	FRST_V	507	A	A_101	Topics in Forest Science	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
FRST_V 507-B_101	FRST_V	507	B	B_101	Topics in Forest Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
FRST_V 507-C_102	FRST_V	507	C	C_102	Topics in Forest Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
FRST_V 507-C_102	FRST_V	507	C	C_102	Topics in Forest Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
FRST_V 508-201	FRST_V	508		201	Advanced Forest Insect Ecology	W2	Role of climate and climate change in the population dynamics, outbreak potentials and resultant impacts to forest ecosystems associated with herbivorous forest insects. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.
FRST_V 515-201	FRST_V	515		201	Climate Change Communications and Engagement	W2	Psychological, social, and systemic dimensions of climate change communication; approaches for engaging diverse groups for low-carbon futures; overcoming climate inaction.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
FRST_V 519-101	FRST_V	519		101	Forests and Society	W1	Emphasis on tropical and sub-tropical countries, where the majority of forest-dependent people live. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
FRST_V 521-C_101	FRST_V	521	C	C_101	Topics in Forests and Society	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 521-C_104	FRST_V	521	C	C_104	Topics in Forests and Society	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	2:30 p.m. - 5:30 p.m.
FRST_V 521-C_105	FRST_V	521	C	C_105	Topics in Forests and Society	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
FRST_V 522-101	FRST_V	522		101	Social, Community, and Indigenous Forestry	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
FRST_V 523-901	FRST_V	523		901	Forest and Environmental Policy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
FRST_V 523-T01	FRST_V	523		T01	Forest and Environmental Policy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
FRST_V 524-901	FRST_V	524		901	Environmental Perception	W2	Perceptual processes mediating behaviour in humans, with special attention given to the emotional processing of visual stimuli. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.
FRST_V 530-201	FRST_V	530		201	Advanced Modelling Methods for Natural Resources Applications	W2	Linear, nonlinear, and generalized linear models, including mixed effects versions of each. Examples include applications to forests and other natural environments. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
FRST_V 531-201	FRST_V	531		201	Multivariate Statistical Methods	W2	Multivariate analysis of variance, cluster, principal components, factor, canonical and discriminant analysis. Theory and conceptual background are presented but emphasis is on selection of appropriate analysis and interpretation of results. Examples from forestry and related fields are analysed by computer programs at UBC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FRST_V 532-C_001	FRST_V	532	C	C_001	Directed Studies in Forest Management	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

FRST_V 532-C_102	FRST_V	532	C	C_102	Directed Studies in Forest Management	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 532-C_201	FRST_V	532	C	C_201	Directed Studies in Forest Management	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 532-C_301	FRST_V	532	C	C_301	Directed Studies in Forest Management	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
FRST_V 532-F_101	FRST_V	532	F	F_101	Directed Studies in Forest Management	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
FRST_V 532-F_301	FRST_V	532	F	F_301	Directed Studies in Forest Management	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
FRST_V 533-C_101	FRST_V	533	C	C_101	Problems in Statistical Methods	W1	Directed studies in problems of advanced statistical techniques as a tool in forest research. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
FRST_V 533-C_L01	FRST_V	533	C	C_L01	Problems in Statistical Methods	W1	Directed studies in problems of advanced statistical techniques as a tool in forest research. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
FRST_V 534-201	FRST_V	534		201	Natural Resources Economics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
FRST_V 537-C_201	FRST_V	537	C	C_201	Topics in Forest Management	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 537-C_202	FRST_V	537	C	C_202	Topics in Forest Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
FRST_V 538-101	FRST_V	538		101	Advanced Geomatics for Natural Resource Management	W1	Advanced geospatial technologies are examined and applied to pressing management issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
FRST_V 538-L02	FRST_V	538		L02	Advanced Geomatics for Natural Resource Management	W1	Advanced geospatial technologies are examined and applied to pressing management issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
FRST_V 538-L03	FRST_V	538		L03	Advanced Geomatics for Natural Resource Management	W1	Advanced geospatial technologies are examined and applied to pressing management issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
FRST_V 543-101	FRST_V	543		101	International Forestry Institutions, Diplomacy and Negotiation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
FRST_V 544-101	FRST_V	544		101	Technical Communication Skills I	W1	Principles and practice of oral presentations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
FRST_V 544-102	FRST_V	544		102	Technical Communication Skills I	W1	Principles and practice of oral presentations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
FRST_V 544-103	FRST_V	544		103	Technical Communication Skills I	W2	Principles and practice of oral presentations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
FRST_V 544-104	FRST_V	544		104	Technical Communication Skills I	W2	Principles and practice of oral presentations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 4:30 p.m.
FRST_V 545-201	FRST_V	545		201	Technical Communication Skills II	W2	Theory and practice of technical communication necessary for preparation of effective scientific reports, reviews, grant proposals, journal articles and theses. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
FRST_V 547-901	FRST_V	547		901	Forestry in British Columbia	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
FRST_V 548-A_001	FRST_V	548	A	A_001	Major Essay	W1-2	For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 548-A_101	FRST_V	548	A	A_101	Major Essay	W1	For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 548-A_201	FRST_V	548	A	A_201	Major Essay	W1-2	For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

FRST_V 548-B_001	FRST_V	548	B	B_001	Major Essay	W1-2	For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 548-B_101	FRST_V	548	B	B_101	Major Essay	W1	For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 548-B_201	FRST_V	548	B	B_201	Major Essay	W1-2	For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-A_001	FRST_V	549	A	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-A_101	FRST_V	549	A	A_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-B_001	FRST_V	549	B	B_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-B_101	FRST_V	549	B	B_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-B_201	FRST_V	549	B	B_201	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-C_001	FRST_V	549	C	C_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-C_101	FRST_V	549	C	C_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 549-C_201	FRST_V	549	C	C_201	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 550-A_001	FRST_V	550	A	A_001	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 550-B_001	FRST_V	550	B	B_001	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 550-B_101	FRST_V	550	B	B_101	M.A.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 550-B_201	FRST_V	550	B	B_201	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 550-C_001	FRST_V	550	C	C_001	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 550-C_101	FRST_V	550	C	C_101	M.A.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 550-C_201	FRST_V	550	C	C_201	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 551-201	FRST_V	551		201	Landscape Planning for Sustainability	W2	Analysis, perception, planning of landscapes, and integration of social acceptability with sustainability. Credit will be granted for only one of FRST 490 or FRST 551. This course is not eligible for Credit/D/Fail grading. Equivalency: LARC542	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
FRST_V 553-101	FRST_V	553		101	International Forest Governance and Policy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
FRST_V 556-101	FRST_V	556		101	Land Information Acquisition and Analysis	W1	Principles and application of data acquisition and use. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	8:30 a.m. - 11:00 a.m.
FRST_V 557-101	FRST_V	557		101	Site-Level Forest Land Management	W1	Design and implementation of site-level plans that integrate ecological, social, and economic components: silviculture, forest operations, and forest health. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
FRST_V 557-101	FRST_V	557		L01	Site-Level Forest Land Management	W1	Design and implementation of site-level plans that integrate ecological, social, and economic components: silviculture, forest operations, and forest health. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:00 p.m. - 4:00 p.m.

FRST_V 558-201	FRST_V	558	201	Landscape-Level Forest Land Management	W2	Preparation of landscape-level sustainable forest management plans that integrate ecological, social, and economic components. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 559-101	FRST_V	559	101	Natural Resources Planning	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Thu	10:00 a.m. - 12:00 p.m.	
FRST_V 559-201	FRST_V	559	201	Natural Resources Planning	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
FRST_V 560-201	FRST_V	560	201	Forest Business Enterprise	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.	
FRST_V 562-001	FRST_V	562	001	Topics in International Forestry	W2	Contemporary and emerging issues in international forestry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
FRST_V 562-101	FRST_V	562	101	Topics in International Forestry	W1-2	Contemporary and emerging issues in international forestry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.	
FRST_V 578-C_001	FRST_V	578	C	C_001	Directed Studies in Forest Business and Management	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
FRST_V 578-C_203	FRST_V	578	C	C_203	Directed Studies in Forest Business and Management	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
FRST_V 580-C_102	FRST_V	580	C	C_102	Topics in Forest Business and Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
FRST_V 580-C_102	FRST_V	580	C	C_102	Topics in Forest Business and Management	W1	This course is not eligible for Credit/D/Fail grading. Theory and evolution of adaptation at different scales in organizations and resource management systems, utilizing existing case studies, examining opportunities and barriers to adaptation, considering strategies and practices to manage climate impacts and risks. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
FRST_V 593-101	FRST_V	593	101	Climate Adaptation in Socio-Ecological Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 4:30 p.m.	
FRST_V 595-201	FRST_V	595	201	Transformative Environmental Research	W2	Scholarly foundations of and emerging approaches for engaging creatively and critically in environmental research that recognizes (and potentially addresses) issues of power, difference, and complexity, transforming both the researcher and the research discipline. This course is not eligible for Credit/D/Fail grading. Prerequisite: Graduate-level standing.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.	
FRST_V 649-001	FRST_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
FRST_V 649-101	FRST_V	649	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
FRST_V 649-201	FRST_V	649	201	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
FSCT_V 280-001	FSCT_V	280	001	Introductory Forensic Science I	W1	Block registration for the introduction to forensic science course taken in the Joint BCIT/UBC Degree in Biochemistry and Forensic Science. Registration is limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged	
FSCT_V 290-001	FSCT_V	290	001	Introductory Forensic Science II	W2	Block registration for the applied ethics and report writing and communication for forensic investigation courses taken in the Joint BCIT/UBC Degree in Biochemistry and Forensic Science. Registration is limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged	
FSCT_V 380-001	FSCT_V	380	001	Intermediate Forensic Science I	W1	Block registration for the forensic biology: DNA typing theory, quality assurance, and business management for forensic science courses taken in the Joint BCIT/UBC Degree in Biochemistry and Forensic Science. Registration is limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged	
FSCT_V 390-001	FSCT_V	390	001	Intermediate Forensic Science II	W2	Block registration for the forensic biology: evidence recovery, research methodology, and elective courses taken in the Joint BCIT/UBC Degree in Biochemistry and Forensic Science. Registration is limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged	
FSCT_V 398-610	FSCT_V	398	610	Co-op Work Placement I	W1	Approved and supervised technical work experience in either an industrial, public, or academic laboratory or a law enforcement agency for a minimum of 14 weeks. Technical report required. Restricted to students admitted to the Co-op Program in Biochemistry and Forensic Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of academic third year in Biochemistry and Forensic Science Honours program is required.	In Person Learning	Arranged	Arranged	
FSCT_V 398-615	FSCT_V	398	615	Co-op Work Placement I	W2	Approved and supervised technical work experience in either an industrial, public, or academic laboratory or a law enforcement agency for a minimum of 14 weeks. Technical report required. Restricted to students admitted to the Co-op Program in Biochemistry and Forensic Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of academic third year in Biochemistry and Forensic Science Honours program is required.	In Person Learning	Arranged	Arranged	

FSCT_V 399-610	FSCT_V	399	610	Co-op Work Placement II	W1	Approved and supervised technical work experience in either an industrial, public, or academic laboratory or a law enforcement agency for a minimum of 14 weeks. Technical report required. Restricted to students admitted to the Co-op Program in Biochemistry and Forensic Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 398.	In Person Learning	Arranged	Arranged
FSCT_V 399-615	FSCT_V	399	615	Co-op Work Placement II	W2	Approved and supervised technical work experience in either an industrial, public, or academic laboratory or a law enforcement agency for a minimum of 14 weeks. Technical report required. Restricted to students admitted to the Co-op Program in Biochemistry and Forensic Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 398.	In Person Learning	Arranged	Arranged
FSCT_V 480-001	FSCT_V	480	001	Advanced Forensic Science I	W1	Block registration for the forensic biology: DNA typing applications, law and forensic science courses taken in the Joint BCIT/UBC Degree in Biochemistry and Forensic Science. Registration is limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged
FSCT_V 490-001	FSCT_V	490	001	Advanced Forensic Science II	W2	Block registration for the expert witness testimony instrumental analysis for forensic chemistry and forensic toxicology courses taken in the Joint BCIT/UBC Degree in Biochemistry and Forensic Science. Registration is limited to students in the Joint Degree Program.	In Person Learning	Arranged	Arranged
FSCT_V 498-610	FSCT_V	498	610	Co-op Work Placement III	W1	Approved and supervised technical work experience in either an industrial, public, or academic laboratory or a law enforcement agency for a minimum of 14 weeks. Technical report required. Restricted to students admitted to the Co-op Program in Biochemistry and Forensic Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 399.	In Person Learning	Arranged	Arranged
FSCT_V 498-615	FSCT_V	498	615	Co-op Work Placement III	W2	Approved and supervised technical work experience in either an industrial, public, or academic laboratory or a law enforcement agency for a minimum of 14 weeks. Technical report required. Restricted to students admitted to the Co-op Program in Biochemistry and Forensic Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 399.	In Person Learning	Arranged	Arranged
FSCT_V 499-615	FSCT_V	499	615	Co-op Work Placement IV	W2	Approved and supervised technical work experience in either an industrial, public, or academic laboratory or a law enforcement agency for a minimum of 14 weeks. Technical report required. Restricted to students admitted to the Co-op Program in Biochemistry and Forensic Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 498.	In Person Learning	Arranged	Arranged
GEM_V 500-101	GEM_V	500	101	Landscape Ecology and Management	W1	Current concepts and skills in ecological modelling and spatial analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
GEM_V 500-L21	GEM_V	500	L21	Landscape Ecology and Management	W1	Current concepts and skills in ecological modelling and spatial analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed (Alternate weeks)	1:00 p.m. - 4:00 p.m.
GEM_V 510-101	GEM_V	510	101	Geographic Information Systems for Forestry and Conservation	W1	Principles and practices of Geographic Information Systems (GIS). This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
GEM_V 510-L01	GEM_V	510	L01	Geographic Information Systems for Forestry and Conservation	W1	Principles and practices of Geographic Information Systems (GIS). This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
GEM_V 511-201	GEM_V	511	201	Advanced Geographic Information Systems for Environmental Management	W2	Advanced topics, techniques and functions in Geographic Information Systems. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
GEM_V 520-101	GEM_V	520	101	Remote Sensing for Ecosystem Management	W1	Capturing spatial data and the use of remote sensing systems to map, monitor and better manage forest, vegetation and ecosystem resources. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
GEM_V 521-201	GEM_V	521	201	Advanced Earth Observation and Image Processing	W2	Advanced topics and techniques in remote sensing and image processing. This course is not eligible for Credit/D/Fail grading. [2-1-0]	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
GEM_V 530-101	GEM_V	530	101	Geospatial Data Analysis	W1-2	Understanding geo-spatial data structures, databases and developing, maintaining and utilizing geo-spatial data. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
GEM_V 540-001	GEM_V	540	001	Linear Regression Models and Introduction to Spatial Statistics	W1-2	This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Arranged	Arranged
GEM_V 540-201	GEM_V	540	201	Linear Regression Models and Introduction to Spatial Statistics	W2	This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
GEOG_V 121-101	GEOG_V	121	101	Geography, Environment and Globalization	W1	Human geography of the modern world with particular attention to human-environment relationships, urbanization, and regional growth; trade and communications; environment and war; environmental governance and sustainability.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
GEOG_V 121-102	GEOG_V	121	102	Geography, Environment and Globalization	W1	Human geography of the modern world with particular attention to human-environment relationships, urbanization, and regional growth; trade and communications; environment and war; environmental governance and sustainability.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GEOG_V 121-201	GEOG_V	121	201	Geography, Environment and Globalization	W2	Human geography of the modern world with particular attention to human-environment relationships, urbanization, and regional growth; trade and communications; environment and war; environmental governance and sustainability.	Online Learning	Arranged	Arranged
GEOG_V 121-202	GEOG_V	121	202	Geography, Environment and Globalization	W2	Human geography of the modern world with particular attention to human-environment relationships, urbanization, and regional growth; trade and communications; environment and war; environmental governance and sustainability.	Online Learning	Arranged	Arranged





GEOG_V 210-101	GEOG_V	210	101	Vancouver and Its Region	W1	An integrated approach to the physical and human geography of the Lower Mainland of British Columbia. Field trips.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
GEOG_V 211-199	GEOG_V	211	199	The State of the Earth	W1	The demographic, economic, ecological, and technological factors that underlie current environmental challenges, considering their effects to date and their possible impact in the future. Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing. Equivalency: ENST 211	In Person Learning	Arranged	Arranged
GEOG_V 211-201	GEOG_V	211	201	The State of the Earth	W2	The demographic, economic, ecological, and technological factors that underlie current environmental challenges, considering their effects to date and their possible impact in the future. Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing. Equivalency: ENST 211	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GEOG_V 220-201	GEOG_V	220	201	Geopolitics	W2	Introduction to the political geographic perspectives on today's interdependent world through three themes: borders, regions, and flows.	In Person Learning	Arranged	Arranged
GEOG_V 250-101	GEOG_V	250	101	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GEOG_V 250-201	GEOG_V	250	201	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	In Person Learning	Arranged	Arranged
GEOG_V 250-L1A	GEOG_V	250	L1A	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
GEOG_V 250-L1B	GEOG_V	250	L1B	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
GEOG_V 250-L1C	GEOG_V	250	L1C	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
GEOG_V 250-L1D	GEOG_V	250	L1D	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
GEOG_V 250-L1E	GEOG_V	250	L1E	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
GEOG_V 250-L2A	GEOG_V	250	L2A	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	Online Learning	Arranged	Arranged
GEOG_V 250-L2B	GEOG_V	250	L2B	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	Online Learning	Arranged	Arranged
GEOG_V 250-L2C	GEOG_V	250	L2C	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	Online Learning	Arranged	Arranged
GEOG_V 250-L2D	GEOG_V	250	L2D	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	Online Learning	Arranged	Arranged
GEOG_V 250-L2E	GEOG_V	250	L2E	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 200. Equivalency: URST 200	Online Learning	Arranged	Arranged
GEOG_V 302-101	GEOG_V	302	101	Climate Justice	W1	Concepts and debates in the interdisciplinary field and practice of climate justice; the role of systemic processes and patterns underlying climate change and climate injustices. Credit will only be granted for one of GEOG 302 or ENST 302. Recommended: Second-year standing. Equivalency: ENST 302	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
GEOG_V 302-201	GEOG_V	302	201	Climate Justice	W2	Concepts and debates in the interdisciplinary field and practice of climate justice; the role of systemic processes and patterns underlying climate change and climate injustices. Credit will only be granted for one of GEOG 302 or ENST 302. Recommended: Second-year standing. Equivalency: ENST 302	In Person Learning	Arranged	Arranged
GEOG_V 310-101	GEOG_V	310	101	Environment and Sustainability	W1	Concepts of environment, resources and sustainability; the roles of physical and human geography in understanding the interaction of humans and the environment; introduction to management of environment-resource systems. Credit will be granted for only one of GEOG 310 or ENST 310. Equivalency: ENST310	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
GEOG_V 310-201	GEOG_V	310	201	Environment and Sustainability	W2	Concepts of environment, resources and sustainability; the roles of physical and human geography in understanding the interaction of humans and the environment; introduction to management of environment-resource systems. Credit will be granted for only one of GEOG 310 or ENST 310. Equivalency: ENST310	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GEOG_V 311-101	GEOG_V	311	101	Urban Environments	W1	The impact of urban development on the natural environment and vice versa. Study of the ecology and metabolism of cities and green urban design, using global and local case studies. Credit will be granted for only one of GEOG 311 or ENST 311. Equivalency: ENST311	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
GEOG_V 311-201	GEOG_V	311	201	Urban Environments	W2	The impact of urban development on the natural environment and vice versa. Study of the ecology and metabolism of cities and green urban design, using global and local case studies. Credit will be granted for only one of GEOG 311 or ENST 311. Equivalency: ENST311	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

GEOG_V 312-101	GEOG_V	312	101	Climate Change: Science and Society	W1	Climates over the geological, historical and instrument periods. Theories of climatic change. Monitoring and modelling the climate system. Impacts of change on environmental and socio-economic systems. Credit will be granted for only one of GEOG 312 or ENST 312. Recommended pre-requisites: one of GEOS 102, GEOB 102, GEOS 200, GEOB 200, GEOS 204, GEOB 204, ATSC 201, EOCS 112. Third-year standing. Equivalency: ENST312	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GEOG_V 313-201	GEOG_V	313	201	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
GEOG_V 313-L22	GEOG_V	313	L22	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 313-L2A	GEOG_V	313	L2A	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 313-L2B	GEOG_V	313	L2B	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 313-L2C	GEOG_V	313	L2C	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 313-L2D	GEOG_V	313	L2D	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 313-L2E	GEOG_V	313	L2E	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 313-L2F	GEOG_V	313	L2F	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 313-L2G	GEOG_V	313	L2G	Environmental Justice and Social Change	W2	Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended pre-requisite: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST313	In Person Learning	Arranged	Arranged
GEOG_V 314-101	GEOG_V	314	101	Analysing Environmental Problems	W2	Concepts and techniques employed in environmental research; challenges in the areas of climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 314 or ENST 314. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GEOG 211, GEOB 102, GEOB 103, GEOS 102, GEOS 103 or EOCS 110 or EOCS 112. Equivalency: ENST314	In Person Learning	Arranged	Arranged
GEOG_V 314-201	GEOG_V	314	201	Analysing Environmental Problems	W2	Concepts and techniques employed in environmental research; challenges in the areas of climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 314 or ENST 314. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GEOG 211, GEOB 102, GEOB 103, GEOS 102, GEOS 103 or EOCS 110 or EOCS 112. Equivalency: ENST314	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
GEOG_V 314-L2A	GEOG_V	314	L2A	Analysing Environmental Problems	W2	Concepts and techniques employed in environmental research; challenges in the areas of climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 314 or ENST 314. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GEOG 211, GEOB 102, GEOB 103, GEOS 102, GEOS 103 or EOCS 110 or EOCS 112. Equivalency: ENST314	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
GEOG_V 314-L2B	GEOG_V	314	L2B	Analysing Environmental Problems	W2	Concepts and techniques employed in environmental research; challenges in the areas of climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 314 or ENST 314. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GEOG 211, GEOB 102, GEOB 103, GEOS 102, GEOS 103 or EOCS 110 or EOCS 112. Equivalency: ENST314	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
GEOG_V 314-L2C	GEOG_V	314	L2C	Analysing Environmental Problems	W2	Concepts and techniques employed in environmental research; challenges in the areas of climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 314 or ENST 314. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GEOG 211, GEOB 102, GEOB 103, GEOS 102, GEOS 103 or EOCS 110 or EOCS 112. Equivalency: ENST314	In Person Learning	Tue	3:00 p.m. - 4:00 p.m.
GEOG_V 314-L2D	GEOG_V	314	L2D	Analysing Environmental Problems	W2	Concepts and techniques employed in environmental research; challenges in the areas of climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 314 or ENST 314. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GEOG 211, GEOB 102, GEOB 103, GEOS 102, GEOS 103 or EOCS 110 or EOCS 112. Equivalency: ENST314	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
GEOG_V 314-L2E	GEOG_V	314	L2E	Analysing Environmental Problems	W2	Concepts and techniques employed in environmental research; challenges in the areas of climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 314 or ENST 314. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GEOG 211, GEOB 102, GEOB 103, GEOS 102, GEOS 103 or EOCS 110 or EOCS 112. Equivalency: ENST314	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
GEOG_V 316-201	GEOG_V	316	201	Geography of Natural Hazards	W2	The role of geophysical events, human ecology, environmental perception, world social and political order in explaining the risk of natural disasters. Assessment of acceptable risk, disaster relief and reconstruction and contrasts between developed and developing nations. Credit will only be granted for one of GEOG 316 or ENST 316. Recommended pre-requisites: one of GEOB 102, GEOS 102 and one of GEOB 103, GEOS 103. Equivalency: ENST 316	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.

GEOG_V 318-201	GEOG_V	318	201	Sustainability in a Changing Environment	W2	Biophysical and human causes of short- and long-term environmental change at various spatial scales, including measurement, interpretation, and policy. Credit will only be granted for one of GEOG 318 or ENST 318. Recommended pre-requisite: GEOG 310. Equivalency: ENST 318	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
GEOG_V 319-101	GEOG_V	319	101	Environmental Impact Assessment	W1	The principles, implementation, and role of environmental impact assessment in environmental management, in Canada and internationally. Credit will be granted for only one of GEOG 319 or ENST 319. Equivalency: ENST319	Hybrid Learning	Wed	3:30 p.m. - 5:00 p.m.
GEOG_V 321-101	GEOG_V	321	101	Historical Geography of Urbanization: Cities, Space, and Power	W1	From the origins of urbanism to the modern era.	In Person Learning	Arranged	Arranged
GEOG_V 328-201	GEOG_V	328	201	Constructing Canada	W2	The construction of Canadian political space after Confederation, aboriginal-newcomer relations, regional development and conflict, industrialization, urbanization, and war.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.
GEOG_V 329-101	GEOG_V	329	101	Political Geography	W1	Review of political geography and geopolitics; relations among space, power and politics; cases from current global affairs.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GEOG_V 342-101	GEOG_V	342	101	Post- and Anti-colonial Geographies	W1	An examination of some key postcolonial and anticolonial theories to engage with questions of geographical difference, uneven development, and the politics of knowledge production at the global scale.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GEOG_V 345-101	GEOG_V	345	101	Theory and Practice in Human Geography	W1	A consideration of major intellectual issues and debates in the development of contemporary human geography, in relation to developments in other fields and changes in politics, culture and society.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
GEOG_V 346-A_101	GEOG_V	346	A	A_101	W2	Topics will vary from year to year. Consult the departmental website or contact the Geography undergraduate advisor for details.	In Person Learning	Arranged	Arranged
GEOG_V 346-B_201	GEOG_V	346	B	B_201	W2	Topics will vary from year to year. Consult the departmental website or contact the Geography undergraduate advisor for details.	In Person Learning	Arranged	Arranged
GEOG_V 350-101	GEOG_V	350	101	Urban Worlds	W1	City systems and theories of urban location; internal spatial structure of the city; commercial and industrial location; social areas; neighbourhood and land use change; urban trends and public policy.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GEOG_V 350-992	GEOG_V	350	992	Urban Worlds	W2	City systems and theories of urban location; internal spatial structure of the city; commercial and industrial location; social areas; neighbourhood and land use change; urban trends and public policy.	Online Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
GEOG_V 351-201	GEOG_V	351	201	Urban Environmental Politics	W2	Effects of urbanization and global environmental change on the geographies of cities across the world. Specific focus on urban environmental justice and inequality. Credit will be granted for only one of GEOG 351 or ENST 351. Equivalency: ENST351	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
GEOG_V 352-201	GEOG_V	352	201	Urbanization in the Global South	W2	The role of cities in development and global capital circulation, and urban politics with emphasis on regions in Latin America, Africa, and Asia. Credit will be granted for only one of GEOG 352 or URST 352. Equivalency: URST 352	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GEOG_V 353-101	GEOG_V	353	101	Geographies of Migration and Settlement	W1	International regimes regulating migration, changes in global demographics, immigration policies of nation states, international migration patterns, settlement policies and outcomes.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GEOG_V 355-201	GEOG_V	355	201	Geographies of Urban Indigeneity	W2	Examines the geographies of urban Indigenous communities in settler colonial contexts, with a focus on urban Indigenous communities within Canadian cities.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GEOG_V 357-201	GEOG_V	357	201	Society, Culture & Space	W2	The development of social and behavioural geography, focusing on how places, landscapes, and environments both reflect and shape social life. Third year standing is recommended.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GEOG_V 361-101	GEOG_V	361	101	Critical Geographies of the Economy	W1	History and methods of economic geography. Location of resource industries, manufacturing, and service activities with emphasis on British Columbia in its North American and world setting. Recommended for students with no previous exposure to geographies of the economy, before taking other courses in the 36x and 46x series. Recommended pre-requisite: GEOG 122.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GEOG_V 361-201	GEOG_V	361	201	Critical Geographies of the Economy	W2	History and methods of economic geography. Location of resource industries, manufacturing, and service activities with emphasis on British Columbia in its North American and world setting. Recommended for students with no previous exposure to geographies of the economy, before taking other courses in the 36x and 46x series. Recommended pre-requisite: GEOG 122.	In Person Learning	Arranged	Arranged
GEOG_V 362-101	GEOG_V	362	101	Geography of Economic Development	W1	Geographical approaches to economic development; models of economic development and spatial change; influences on spatial economic change; case studies from the developed, third, and socialist worlds. Recommended pre-requisites: either (a) GEOG 122 or (b) GEOG 260.	Online Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
GEOG_V 362-201	GEOG_V	362	201	Geography of Economic Development	W2	Geographical approaches to economic development; models of economic development and spatial change; influences on spatial economic change; case studies from the developed, third, and socialist worlds. Recommended pre-requisites: either (a) GEOG 122 or (b) GEOG 260.	Online Learning	Arranged	Arranged
GEOG_V 364-101	GEOG_V	364	101	Globalization, Cities, and Regions	W1	Forms of economic development; changing location of economic activities and functions; implications for government and politics; local strategies for growth and equity. Recommended pre-requisites: one of GEOG 121, GEOG 122.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GEOG_V 371-201	GEOG_V	371	201	Research Strategies in Geography	W2	Formulating a research problem and selecting an appropriate research strategy. Research strategies range from social scientific survey methods to ethnography. Priority enrolment for honours and major students in Geography. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

GEOG_V 371-L2A	GEOG_V	371	L2A	Research Strategies in Geography	W2	Formulating a research problem and selecting an appropriate research strategy. Research strategies range from social scientific survey methods to ethnography. Priority enrolment for honours and major students in Geography. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.	
GEOG_V 371-L2B	GEOG_V	371	L2B	Research Strategies in Geography	W2	Formulating a research problem and selecting an appropriate research strategy. Research strategies range from social scientific survey methods to ethnography. Priority enrolment for honours and major students in Geography. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.	
GEOG_V 371-L2C	GEOG_V	371	L2C	Research Strategies in Geography	W2	Formulating a research problem and selecting an appropriate research strategy. Research strategies range from social scientific survey methods to ethnography. Priority enrolment for honours and major students in Geography. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.	
GEOG_V 374-201	GEOG_V	374	201	Statistics in Geography	W2	Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honours and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> .	Online Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
GEOG_V 374-L2A	GEOG_V	374	L2A	Statistics in Geography	W2	Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honours and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> .	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.	
GEOG_V 374-L2B	GEOG_V	374	L2B	Statistics in Geography	W2	Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honours and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> .	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.	
GEOG_V 374-L2C	GEOG_V	374	L2C	Statistics in Geography	W2	Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honours and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> .	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.	
GEOG_V 374-L2D	GEOG_V	374	L2D	Statistics in Geography	W2	Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honours and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> .	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.	
GEOG_V 374-L2E	GEOG_V	374	L2E	Statistics in Geography	W2	Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honours and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vanouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> .	Online Learning	Mon	4:00 p.m. - 6:00 p.m.	
GEOG_V 391-101	GEOG_V	391	101	Cities, Places, and Borders in Modern Europe	W1	Present-day human geography of the cities and regions of Europe. Restricted to students with at least second-year standing.	In Person Learning	Arranged	Arranged	
GEOG_V 395-101	GEOG_V	395	101	Culture, Nature, and Coloniality in Latin America	W1	Socio-ecologies in 1491; Spanish colonialism and biological imperialism; contemporary coloniality and neoliberalism; and social movements.	In Person Learning	Arranged	Arranged	
GEOG_V 395-201	GEOG_V	395	201	Culture, Nature, and Coloniality in Latin America	W2	Socio-ecologies in 1491; Spanish colonialism and biological imperialism; contemporary coloniality and neoliberalism; and social movements.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
GEOG_V 402-201	GEOG_V	402	201	Climate Studies and Action Capstone	W2	Topics will vary from year to year. Consult the departmental website or contact the instructor for details. Restricted to Certificate of Climate Studies and Action students. Credit will only be granted for one of GEOG 402 or ENVR 402. This course is not eligible for Credit/D/Fail grading. Prerequisite: ENVR 401. Equivalency: ENVR402	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.	
GEOG_V 410-101	GEOG_V	410	101	Environment and Society	W1	Geographical analysis of society-environment relations. Relates resource management to environmental politics, political economy, and sustainable development. Perspectives drawn from political ecology and political economy, environmental history and environmental philosophy. Registration is restricted to Geography Majors and Minors or permission of instructor. Recommended: GEOG 310. Credit will only be granted for one of GEOG 410 or ENST 410. Equivalency: ENST 410	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
GEOG_V 410-201	GEOG_V	410	201	Environment and Society	W2	Geographical analysis of society-environment relations. Relates resource management to environmental politics, political economy, and sustainable development. Perspectives drawn from political ecology and political economy, environmental history and environmental philosophy. Registration is restricted to Geography Majors and Minors or permission of instructor. Recommended: GEOG 310. Credit will only be granted for one of GEOG 410 or ENST 410. Equivalency: ENST 410	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
GEOG_V 412-101	GEOG_V	412	101	Water Management: Theory, Policy, and Practice.	W1	Interdisciplinary analysis of critical water issues, in Canada and internationally. Focus on social science perspectives. Emphasis on presentation, research, and essay-writing skills. Credit will only be granted for one of GEOG 412 or ENST 412. This course is not eligible for Credit/D/Fail grading. Prerequisite: GEOG 310. Equivalency: ENST 412	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.	
GEOG_V 412-201	GEOG_V	412	201	Water Management: Theory, Policy, and Practice.	W2	Interdisciplinary analysis of critical water issues, in Canada and internationally. Focus on social science perspectives. Emphasis on presentation, research, and essay-writing skills. Credit will only be granted for one of GEOG 412 or ENST 412. This course is not eligible for Credit/D/Fail grading. Prerequisite: GEOG 310. Equivalency: ENST 412	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
GEOG_V 423-201	GEOG_V	423	201	Development of Environmental Thought	W2	An examination of how attitudes toward human nature and non-human nature have changed from Mesolithic times to the present in Western society. Credit will only be granted for one of GEOG 423 or ENST 423. Equivalency: ENST 423.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.	
GEOG_V 424-201	GEOG_V	424	201	Feminist Geographies	W2	An introductory survey of contemporary feminist approaches to human geography.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
GEOG_V 432-201	GEOG_V	432	201	Radical Traditions of Decolonization and Liberation	W2	Decolonial theory and practice through an examination of critical Indigenous and critical race scholarship and activism. Prerequisite: Restricted to students with 3rd year standing or higher. GEOG 121, or equivalent, is strongly recommended for students with 3rd year standing.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.	
GEOG_V 446-A_101	GEOG_V	446	A	A_101	Topics in Geography	W1	See the departmental undergraduate advisor for details.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
GEOG_V 446-A_102	GEOG_V	446	A	A_102	Topics in Geography	W1	See the departmental undergraduate advisor for details.	In Person Learning	Arranged	Arranged

GEOG_V 446-A_103	GEOG_V	446	A	A_103	Topics in Geography	W1	See the departmental undergraduate advisor for details.	In Person Learning	Arranged	Arranged
GEOG_V 446-A_104	GEOG_V	446	A	A_104	Topics in Geography	W1	See the departmental undergraduate advisor for details.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
GEOG_V 446-B_201	GEOG_V	446	B	B_201	Topics in Geography	W2	See the departmental undergraduate advisor for details.	Online Learning	Mon	2:00 p.m. - 5:00 p.m.
GEOG_V 446-B_202	GEOG_V	446	B	B_202	Topics in Geography	W2	See the departmental undergraduate advisor for details.	In Person Learning	Arranged	Arranged
GEOG_V 448-101	GEOG_V	448		101	Directed Studies in Geography	W1	Investigation of a topic to be agreed upon by the supervising faculty member and the student. Prerequisite: Open to upper-level students enrolled in the Geography Majors or Honours programs. Permission of the Undergraduate Advisor and supervising faculty member is required.	Online Learning	Arranged	Arranged
GEOG_V 448-201	GEOG_V	448		201	Directed Studies in Geography	W2	Investigation of a topic to be agreed upon by the supervising faculty member and the student. Prerequisite: Open to upper-level students enrolled in the Geography Majors or Honours programs. Permission of the Undergraduate Advisor and supervising faculty member is required.	Online Learning	Arranged	Arranged
GEOG_V 450-201	GEOG_V	450		201	Urban Research	W2	Historical, legal, and quantitative analysis of urban research. Emphasis on spatial, racial, and political dynamics of urban inequality. Credit will be granted for only one of GEOG 450 or URST 450. Prerequisite: Fourth-year standing. Equivalency: URST 450	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
GEOG_V 451-199	GEOG_V	451		199	Urban Studies Capstone I	W1	Formulation of key elements of urban studies theory, concepts, and methods to a community-engaged urban challenge. Credit will be granted for only one of GEOG 451 or URST 451. Prerequisite: One of GEOG 250, URST 200 and all of PLAN 211, PLAN 231, GEOG 371. Equivalency: URST 451	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
GEOG_V 453-101	GEOG_V	453		101	Political Geographic Analysis	W1	Political organization of space; territorial and spatial patterns of power and identity; contemporary geopolitical struggles. Prerequisite: At least third-year standing.	In Person Learning	Arranged	Arranged
GEOG_V 456-201	GEOG_V	456		201	Film and the City	W2	The complex interrelations between film and the city; dominant urban theories, film technologies and viewing practices and the intersections between them. Credit will be granted for only one of GEOG 456, FINA 445, or ARTH 445. Equivalency: FINA 445, ARTH 445	In Person Learning	Arranged	Arranged
GEOG_V 461-201	GEOG_V	461		201	Urban Political-Economic Geographies	W2	Principal theories and debates in urban political economy and political-economic geography, with particular emphasis on global transformations.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
GEOG_V 492-201	GEOG_V	492		201	Oceanic Geographies: Movement, Materiality, and Mobility	W2	Moves beyond continental landmasses to consider global oceanic connections, mobility and materiality, and seascape epistemologies or ways of knowing through a cultural, social and historical geographies perspective. Restricted to students with third-year standing or above.	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.
GEOG_V 495-201	GEOG_V	495		201	Geographies of Social Movements in the Americas	W2	The politics of North-South solidarity in theory and practice through community service learning models. Recommended pre-requisites: one of LAST 100, GEOG 395. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
GEOG_V 497-101	GEOG_V	497		101	The Arctic	W1	Physical and biological characteristics of the circumpolar Arctic, emphasizing terrestrial environments and the impacts on and by humans, including: glacial history; climatology; biogeography/ecology of arctic tundra; human-environment interactions, settlement and exploration; and current environmental, social and economic problems. Prerequisite: At least third-year standing.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GEOG_V 498-101	GEOG_V	498		101	Geographies of the Middle East	W1	Critical analysis of economic, social, and political development and processes defining the modern Middle East region.	In Person Learning	Arranged	Arranged
GEOG_V 514-A_101	GEOG_V	514	A	A_101	Topics in Environmental Geography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOG_V 514-B_101	GEOG_V	514	B	B_101	Topics in Environmental Geography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
GEOG_V 514-B_201	GEOG_V	514	B	B_201	Topics in Environmental Geography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOG_V 520-101	GEOG_V	520		101	Themes and Interpretive Issues in Modern Human Geography	W1	Themes and interpretive issues in modern human geography. Students from outside Geography require the permission of the Head of the department. Restricted to M.A. GEOG, M.Sc. GEOG, or PhD GEOG. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
GEOG_V 523-A_201	GEOG_V	523	A	A_201	Advanced Seminar in Human Geography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
GEOG_V 545-A_101	GEOG_V	545	A	A_101	Topics in Human Geography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
GEOG_V 545-B_201	GEOG_V	545	B	B_201	Topics in Human Geography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.

GEOG_V 545-E_201	GEOG_V	545	E	E_201	Topics in Human Geography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOG_V 551-201	GEOG_V	551		201	Urban Social Geography	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
GEOG_V 560-A_101	GEOG_V	560	A	A_101	Economic Geography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
GEOG_V 560-D_101	GEOG_V	560	D	D_101	Economic Geography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOG_V 575-D_201	GEOG_V	575	D	D_201	Research Strategies in Human Geography	W2	A workshop-based seminar for Master's and PhD students in human geography concerned with the evaluation of alternative research strategies and the development of individual research proposals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
GEOG_V 599-001	GEOG_V	599		001	Master's Thesis	W1-2	Restricted to MA in Geography students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOG_V 599-002	GEOG_V	599		002	Master's Thesis	W1	Restricted to MA in Geography students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOG_V 599-003	GEOG_V	599		003	Master's Thesis	W2	Restricted to MA in Geography students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOG_V 699-001	GEOG_V	699		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
GEOG_V 699-002	GEOG_V	699		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
GEOG_V 699-003	GEOG_V	699		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
GEOS_V 102-101	GEOS_V	102		101	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
GEOS_V 102-102	GEOS_V	102		102	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	Online Learning	Arranged	Arranged
GEOS_V 102-201	GEOS_V	102		201	Our Changing Environment: Climate and Ecosystems	W2	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
GEOS_V 102-202	GEOS_V	102		202	Our Changing Environment: Climate and Ecosystems	W2	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
GEOS_V 102-L01	GEOS_V	102		L01	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
GEOS_V 102-L02	GEOS_V	102		L02	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
GEOS_V 102-L03	GEOS_V	102		L03	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
GEOS_V 102-L04	GEOS_V	102		L04	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
GEOS_V 102-L05	GEOS_V	102		L05	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
GEOS_V 102-L06	GEOS_V	102		L06	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	Hybrid Learning	Wed	3:00 p.m. - 4:00 p.m.
GEOS_V 102-L07	GEOS_V	102		L07	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
GEOS_V 102-L08	GEOS_V	102		L08	Our Changing Environment: Climate and Ecosystems	W1	Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts. Please consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-2*-0]	In Person Learning	Thu	3:00 p.m. - 4:00 p.m.





GEOS_V 200-L1F	GEOS_V	200	L1F	Atmospheric Environments	W1	Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204, or APBI 244. Recommended pre-requisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
GEOS_V 207-101	GEOS_V	207	101	Introduction to Biogeography	W1	Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs emphasize collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOB 102, GEOS 102. [3-2*-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GEOS_V 207-L1A	GEOS_V	207	L1A	Introduction to Biogeography	W1	Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs emphasize collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOB 102, GEOS 102. [3-2*-0]	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
GEOS_V 207-L1B	GEOS_V	207	L1B	Introduction to Biogeography	W1	Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs emphasize collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOB 102, GEOS 102. [3-2*-0]	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
GEOS_V 207-L1C	GEOS_V	207	L1C	Introduction to Biogeography	W1	Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs emphasize collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOB 102, GEOS 102. [3-2*-0]	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
GEOS_V 270-101	GEOS_V	270	101	Geographic Information Science	W1	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GEOS_V 270-201	GEOS_V	270	201	Geographic Information Science	W2	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GEOS_V 270-L1A	GEOS_V	270	L1A	Geographic Information Science	W1	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
GEOS_V 270-L1B	GEOS_V	270	L1B	Geographic Information Science	W1	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
GEOS_V 270-L1C	GEOS_V	270	L1C	Geographic Information Science	W1	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
GEOS_V 270-L1D	GEOS_V	270	L1D	Geographic Information Science	W1	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
GEOS_V 270-L1E	GEOS_V	270	L1E	Geographic Information Science	W1	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
GEOS_V 270-L1F	GEOS_V	270	L1F	Geographic Information Science	W1	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
GEOS_V 270-L2A	GEOS_V	270	L2A	Geographic Information Science	W2	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
GEOS_V 270-L2B	GEOS_V	270	L2B	Geographic Information Science	W2	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
GEOS_V 270-L2C	GEOS_V	270	L2C	Geographic Information Science	W2	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
GEOS_V 270-L2D	GEOS_V	270	L2D	Geographic Information Science	W2	Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis. [2-2-0]	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
GEOS_V 300-101	GEOS_V	300	101	Microscale Weather and Climate	W1	Meteorology and climatology at the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates on scales of a leaf to those of a large valley. Recommended pre-requisites: one of GEOB 200, GEOS 200, GEOB 204, GEOS 204, ATSC 201. [3-0-0]	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GEOS_V 300-102	GEOS_V	300	102	Microscale Weather and Climate	W1	Meteorology and climatology at the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates on scales of a leaf to those of a large valley. Recommended pre-requisites: one of GEOB 200, GEOS 200, GEOB 204, GEOS 204, ATSC 201. [3-0-0]	In Person Learning	Arranged	Arranged
GEOS_V 300-201	GEOS_V	300	201	Microscale Weather and Climate	W2	Meteorology and climatology at the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates on scales of a leaf to those of a large valley. Recommended pre-requisites: one of GEOB 200, GEOS 200, GEOB 204, GEOS 204, ATSC 201. [3-0-0]	In Person Learning	Arranged	Arranged
GEOS_V 303-101	GEOS_V	303	101	Tropical Ecosystems in a Changing World	W2	Biogeography and ecology of tropical systems, including patterns of species diversity, forest dynamics, plant-animal interactions, carbon and nutrient cycling. Impacts of global environmental change and conservation strategies for tropical ecosystems. Recommended pre-requisites: one of GEOB 207, GEOS 207, BIOL 230, FRST 201. [3-0-0]	In Person Learning	Arranged	Arranged
GEOS_V 305-201	GEOS_V	305	201	Introduction to Hydrology	W2	Principles of hydrology at site, watershed, and larger regional scales. Introduction to techniques of measurement and analysis. Emphasizes surface water hydrology of western North America. Recommended pre-requisites: one of GEOB 200, GEOS 200, GEOB 204, GEOS 204, APBI 244, ATSC 201, and one of PHYS 100-level or CHEM 123. [3-2*-0]	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.

GEOS_V 305-L2A	GEOS_V	305	L2A	Introduction to Hydrology	W2	Principles of hydrology at site, watershed, and larger regional scales. Introduction to techniques of measurement and analysis. Emphasizes surface water hydrology of western North America. Recommended pre-requisites: one of GEOB 200, GEOS 200, GEOB 204, GEOS 204, APBI 244, ATSC 201, and one of PHYS 100-level or CHEM 123. [3-2*-0]	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
GEOS_V 305-L2B	GEOS_V	305	L2B	Introduction to Hydrology	W2	Principles of hydrology at site, watershed, and larger regional scales. Introduction to techniques of measurement and analysis. Emphasizes surface water hydrology of western North America. Recommended pre-requisites: one of GEOB 200, GEOS 200, GEOB 204, GEOS 204, APBI 244, ATSC 201, and one of PHYS 100-level or CHEM 123. [3-2*-0]	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
GEOS_V 307-201	GEOS_V	307	201	Biogeography and Global Change	W2	Biogeographic concepts in understanding responses in ecosystems to environmental change at global, regional, and local scales. Conservation issues such as the loss of biodiversity and endangered species. Recommended pre-requisites: one of BIOL 230, GEOB 207, GEOS 207, FRST 201. [3-2*-0]	Hybrid Learning	Wed	3:00 p.m. - 5:00 p.m.
GEOS_V 307-L2A	GEOS_V	307	L2A	Biogeography and Global Change	W2	Biogeographic concepts in understanding responses in ecosystems to environmental change at global, regional, and local scales. Conservation issues such as the loss of biodiversity and endangered species. Recommended pre-requisites: one of BIOL 230, GEOB 207, GEOS 207, FRST 201. [3-2*-0]	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
GEOS_V 307-L2B	GEOS_V	307	L2B	Biogeography and Global Change	W2	Biogeographic concepts in understanding responses in ecosystems to environmental change at global, regional, and local scales. Conservation issues such as the loss of biodiversity and endangered species. Recommended pre-requisites: one of BIOL 230, GEOB 207, GEOS 207, FRST 201. [3-2*-0]	In Person Learning	Wed	5:00 p.m. - 7:00 p.m.
GEOS_V 307-L2C	GEOS_V	307	L2C	Biogeography and Global Change	W2	Biogeographic concepts in understanding responses in ecosystems to environmental change at global, regional, and local scales. Conservation issues such as the loss of biodiversity and endangered species. Recommended pre-requisites: one of BIOL 230, GEOB 207, GEOS 207, FRST 201. [3-2*-0]	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
GEOS_V 370-101	GEOS_V	370	101	Advanced Geographic Information Science	W1	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
GEOS_V 370-201	GEOS_V	370	201	Advanced Geographic Information Science	W2	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GEOS_V 370-L1A	GEOS_V	370	L1A	Advanced Geographic Information Science	W1	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
GEOS_V 370-L1B	GEOS_V	370	L1B	Advanced Geographic Information Science	W1	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
GEOS_V 370-L1C	GEOS_V	370	L1C	Advanced Geographic Information Science	W1	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
GEOS_V 370-L2A	GEOS_V	370	L2A	Advanced Geographic Information Science	W2	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
GEOS_V 370-L2B	GEOS_V	370	L2B	Advanced Geographic Information Science	W2	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
GEOS_V 370-L2C	GEOS_V	370	L2C	Advanced Geographic Information Science	W2	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
GEOS_V 370-L2D	GEOS_V	370	L2D	Advanced Geographic Information Science	W2	Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, ENST, URST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]	In Person Learning	Arranged	Arranged
GEOS_V 372-101	GEOS_V	372	101	Cartography	W1	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
GEOS_V 372-201	GEOS_V	372	201	Cartography	W2	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
GEOS_V 372-L1A	GEOS_V	372	L1A	Cartography	W1	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
GEOS_V 372-L1B	GEOS_V	372	L1B	Cartography	W1	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
GEOS_V 372-L1C	GEOS_V	372	L1C	Cartography	W1	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.

GEOS_V 372-L2A	GEOS_V	372	L2A	Cartography	W2	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
GEOS_V 372-L2B	GEOS_V	372	L2B	Cartography	W2	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.	
GEOS_V 372-L2C	GEOS_V	372	L2C	Cartography	W2	Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GEOS 102, GEOB 103, GEOS 103. [2-2-0]	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.	
GEOS_V 373-201	GEOS_V	373	201	Introductory Remote Sensing	W2	Aerial photography; measurement from aerial photographs; photo-interpretation in geographic analysis; remote sensing of the earth's surface and atmosphere. Recommended pre-requisites: one of GEOB 270, GEOS 270, or third-year standing in ENSC or GEOS (or GEOB) specializations. [3-2*-0]	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
GEOS_V 373-L2A	GEOS_V	373	L2A	Introductory Remote Sensing	W2	Aerial photography; measurement from aerial photographs; photo-interpretation in geographic analysis; remote sensing of the earth's surface and atmosphere. Recommended pre-requisites: one of GEOB 270, GEOS 270, or third-year standing in ENSC or GEOS (or GEOB) specializations. [3-2*-0]	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.	
GEOS_V 373-L2B	GEOS_V	373	L2B	Introductory Remote Sensing	W2	Aerial photography; measurement from aerial photographs; photo-interpretation in geographic analysis; remote sensing of the earth's surface and atmosphere. Recommended pre-requisites: one of GEOB 270, GEOS 270, or third-year standing in ENSC or GEOS (or GEOB) specializations. [3-2*-0]	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.	
GEOS_V 373-L2C	GEOS_V	373	L2C	Introductory Remote Sensing	W2	Aerial photography; measurement from aerial photographs; photo-interpretation in geographic analysis; remote sensing of the earth's surface and atmosphere. Recommended pre-requisites: one of GEOB 270, GEOS 270, or third-year standing in ENSC or GEOS (or GEOB) specializations. [3-2*-0]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
GEOS_V 401-201	GEOS_V	401	201	Urban Meteorology	W2	The impact of urbanization upon atmospheric processes and climates. The energy and water balances of cities. Meteorological effects (urban heat island, precipitation modification, etc.) and their significance. Models of the urban atmosphere. [3-0-0] Prerequisite: One of GEOB 204, GEOS 204, GEOB 300, GEOS 300, AGRO 244, APBI 244.	Online Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
GEOS_V 402-101	GEOS_V	402	101	Air Pollution Meteorology	W1	The nature of atmospheric pollutants. The ability of the atmosphere to disperse, transform, and remove pollutants. Air pollution dispersion models. Air quality monitoring, criteria, and standards. [3-0-0] Prerequisite: One of GEOB 200, GEOS 200, GEOB 300, GEOS 300.	In Person Learning	Arranged	Arranged	
GEOS_V 405-201	GEOS_V	405	201	Fluvial Geomorphology	W2	Introduction to open channel flow and sediment transport. River morphology and channel types. Palaeohydrology. The development of channel networks. Recommended pre-requisites: one of EOSC 320, EOSC 330, GEOB 206, GEOS 206. [2-3-0]	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
GEOS_V 405-L2A	GEOS_V	405	L2A	Fluvial Geomorphology	W2	Introduction to open channel flow and sediment transport. River morphology and channel types. Palaeohydrology. The development of channel networks. Recommended pre-requisites: one of EOSC 320, EOSC 330, GEOB 206, GEOS 206. [2-3-0]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
GEOS_V 406-101	GEOS_V	406	101	Watershed Geomorphology	W1	Hillslope and stream channel processes and their rates of operation. Analysis and modelling geomorphic processes and associated hazards at the watershed scale. Applications in geoscience and engineering. Recommended pre-requisites: one of GEOB 206, GEOS 206, EOSC 330. [2-2-0]	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.	
GEOS_V 406-L1A	GEOS_V	406	L1A	Watershed Geomorphology	W1	Hillslope and stream channel processes and their rates of operation. Analysis and modelling geomorphic processes and associated hazards at the watershed scale. Applications in geoscience and engineering. Recommended pre-requisites: one of GEOB 206, GEOS 206, EOSC 330. [2-2-0]	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.	
GEOS_V 407-201	GEOS_V	407	201	Vegetation Dynamics: Disturbance, Climate and Human Impacts	W2	Investigation of vegetation dynamics integrating theory and research to address contemporary issues of global environmental change. Students will conduct fieldwork and learn to analyze data and interpret results. [2-3-0] Prerequisite: One of BIOL 230, GEOB 207, GEOS 207, FRST 201.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.	
GEOS_V 407-L2A	GEOS_V	407	L2A	Vegetation Dynamics: Disturbance, Climate and Human Impacts	W2	Investigation of vegetation dynamics integrating theory and research to address contemporary issues of global environmental change. Students will conduct fieldwork and learn to analyze data and interpret results. [2-3-0] Prerequisite: One of BIOL 230, GEOB 207, GEOS 207, FRST 201.	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.	
GEOS_V 448-A_101	GEOS_V	448	A	A_101	Directed Studies in Geographical Sciences	W1	For fourth-year students in Geography to permit investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the department head and of a supervisory faculty member is required. Credit will be granted for only one of GEOB 448, GEOS 448 or GEOG 448. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GEOS_V 448-A_201	GEOS_V	448	A	A_201	Directed Studies in Geographical Sciences	W2	For fourth-year students in Geography to permit investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the department head and of a supervisory faculty member is required. Credit will be granted for only one of GEOB 448, GEOS 448 or GEOG 448. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GEOS_V 449-A_001	GEOS_V	449	A	A_001	Undergraduate Thesis	W1-2	Original research on an approved topic, developed under the guidance of a faculty member. Open to 4th year students in Geographical Sciences with appropriate background courses related to the research topic, and permission of the directing faculty member. The 3-credit option is only available to students who complete GEOS 449 in tandem with GEOS 409.	In Person Learning	Arranged	Arranged
GEOS_V 472-201	GEOS_V	472	201	Research in Cartography	W2	Use of cartography in primary research applications. Discussion of contemporary topics in cognitive, social, and technical cartography and data visualization. Recommended pre-requisites: one of GEOB 270, GEOS 270, GEOB 372, GEOS 372. [3-2*-0]	In Person Learning	Arranged	Arranged	
GEOS_V 479-201	GEOS_V	479	201	Research in Geographic Information Science	W2	Students use GIS in primary research applications in conservation biology, crime analysis, and health geography; theoretical and practical aspects considered in a hands-on environment. [2-2-0] Prerequisite: One of GEOB 370, GEOS 370.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
GEOS_V 500-101	GEOS_V	500	101	Theory and Practice of Research in Geographical Sciences	W1	Credit will be granted for only one of GEOS 500 or GEOB 500. Restricted to M.A.GEOG, M.Sc. GEOG, or PhD GEOG. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	

GEOS_V 508-A-201	GEOS_V	508	A	A_201	Advanced Seminar in Geomorphology	W2	Credit will be granted for only one of GEOS 508 or GEOB 508. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
GEOS_V 599-001	GEOS_V	599		001	Master's Thesis	W1-2	Pass/Fail. Restricted to MSc in Geography students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOS_V 599-002	GEOS_V	599		002	Master's Thesis	W1	Pass/Fail. Restricted to MSc in Geography students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GEOS_V 599-003	GEOS_V	599		003	Master's Thesis	W2	Pass/Fail. Restricted to MSc in Geography students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GERN_V 101-101	GERN_V	101		101	Learning German 1	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GERN_V 101-102	GERN_V	101		102	Learning German 1	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
GERN_V 101-103	GERN_V	101		103	Learning German 1	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GERN_V 101-104	GERN_V	101		104	Learning German 1	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	Online Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
GERN_V 101-105	GERN_V	101		105	Learning German 1	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GERN_V 101-106	GERN_V	101		106	Learning German 1	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GERN_V 101-107	GERN_V	101		107	Learning German 1	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GERN_V 101-201	GERN_V	101		201	Learning German 1	W2	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GERN_V 101-202	GERN_V	101		202	Learning German 1	W2	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GERN_V 101-203	GERN_V	101		203	Learning German 1	W2	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
GERN_V 102-201	GERN_V	102		201	Learning German 2	W2	Continuation of GERN 101. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 110 or GERN 102. Equivalency: GERM110	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
GERN_V 102-202	GERN_V	102		202	Learning German 2	W2	Continuation of GERN 101. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 110 or GERN 102. Equivalency: GERM110	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
GERN_V 102-203	GERN_V	102		203	Learning German 2	W2	Continuation of GERN 101. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 110 or GERN 102. Equivalency: GERM110	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GERN_V 102-204	GERN_V	102		204	Learning German 2	W2	Continuation of GERN 101. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 110 or GERN 102. Equivalency: GERM110	Online Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
GERN_V 201-101	GERN_V	201		101	Learning German 3	W1	Continuation of GERN 102. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 200 or GERN 201. Equivalency: GERM200	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GERN_V 201-102	GERN_V	201		102	Learning German 3	W1	Continuation of GERN 102. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 200 or GERN 201. Equivalency: GERM200	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
GERN_V 202-201	GERN_V	202		201	Learning German 4	W2	Continuation of GERN 201. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 210 or GERN 202. Equivalency: GERM210	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GERN_V 202-202	GERN_V	202		202	Learning German 4	W2	Continuation of GERN 201. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 210 or GERN 202. Equivalency: GERM210	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GERN_V 301-101	GERN_V	301		101	Learning German 5	W1	Continuation of GERN 202. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 300 or GERN 301. Equivalency: GERM300	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.

GERN_V 302-201	GERN_V	302	201	Learning German 6	W2	Continuation of GERN 301. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 310 or GERN 302. Equivalency: GERM310	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
GERN_V 303-201	GERN_V	303	201	German Conversation	W2	Emphasis on the study of oral communication skills and strategies. Fluency in many situations, communicative competence in important areas of cultural life, ability to participate in discussions of current as well as controversial issues to express ideas clearly in spoken word. Credit will be granted for only one of GERM 313 or GERN 303. Prerequisite: One of GERM 210, GERN 202. or equivalent. Equivalency: GERM313	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GERN_V 304-101	GERN_V	304	101	German for Reading Knowledge I	W1	Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 433 or GERN 304. Equivalency: GERM433	Online Learning	Mon	6:00 p.m. - 9:00 p.m.
GERN_V 304-102	GERN_V	304	102	German for Reading Knowledge I	W1	Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 433 or GERN 304. Equivalency: GERM433	Online Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
GERN_V 304-103	GERN_V	304	103	German for Reading Knowledge I	W1	Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 433 or GERN 304. Equivalency: GERM433	Online Learning	Wed	6:00 p.m. - 9:00 p.m.
GERN_V 304-201	GERN_V	304	201	German for Reading Knowledge I	W2	Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 433 or GERN 304. Equivalency: GERM433	Online Learning	Thu	6:00 p.m. - 9:00 p.m.
GERN_V 304-202	GERN_V	304	202	German for Reading Knowledge I	W2	Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 433 or GERN 304. Equivalency: GERM433	Online Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
GERN_V 304-203	GERN_V	304	203	German for Reading Knowledge I	W2	Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 433 or GERN 304. Equivalency: GERM433	Online Learning	Wed	6:00 p.m. - 9:00 p.m.
GERN_V 344-101	GERN_V	344	101	Discipline and Liberation: Studies in the 19th Century	W1	Nineteenth-century Germanophone literature against the larger background of the political and social developments of the period. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 380 or GERN 344. Equivalency: GERM380	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GERN_V 347-101	GERN_V	347	101	Progress and Disaster: Studies in the 20th and 21st Centuries	W1	Selected literary works from German-speaking societies against the larger background of the political and social developments of the period. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 390 or GERN 347. Equivalency: GERM390	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
GERN_V 401-101	GERN_V	401	101	German through Critical Contemporary Topics	W1	Discussion and analysis of current issues in a German-speaking seminar format. Spoken and written German communication about critical, societal topics fostering advanced competence. Continuation of GERN 302. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 400 or GERN 401. Equivalency: GERM400	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GMST_V 121-101	GMST_V	121	101	Fairy Tales and Popular Culture	W1	Explore folk and fairy tales from the German-speaking tradition and their adaptations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 121 or GMST 121. Equivalency: GERM121	In Person Learning	Arranged	Arranged
GMST_V 121-201	GMST_V	121	201	Fairy Tales and Popular Culture	W2	Explore folk and fairy tales from the German-speaking tradition and their adaptations. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 121 or GMST 121. Equivalency: GERM121	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
GMST_V 274-101	GMST_V	274	101	The Frankfurt School	W1	Foundations of critical theory, and key media and cultural studies concepts developed by the members of the Frankfurt Institute of Social Research (1923 -), their collaborators and followers. Credit will be granted for only one of GERM 207 or GMST 274. Equivalency: GERM207	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
GMST_V 335-101	GMST_V	335	101	German Cinema	W1	Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 304 or GMST 335. Equivalency: GERM304	Multi-access Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GMST_V 335-102	GMST_V	335	102	German Cinema	W1	Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 304 or GMST 335. Equivalency: GERM304	In Person Learning	Arranged	Arranged
GMST_V 335-201	GMST_V	335	201	German Cinema	W2	Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 304 or GMST 335. Equivalency: GERM304	Online Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GMST_V 341-101	GMST_V	341	101	Germanophone Literature before 1900	W1	Reading and discussion of selected works from German-speaking societies from the Middle Ages to 1900. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 303 or GMST 341. Equivalency: GERM303	Multi-access Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GMST_V 342-101	GMST_V	342	101	Heaven and Earth: Germanophone Culture and Literature before 1700	W1	Germanophone literature of the Middle Ages, Renaissance, and Baroque against the larger background of the political and social developments of the period. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 360 or GMST 342. Equivalency: GERM360	Multi-access Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GMST_V 420-A_101	GMST_V	420	A	A_101	W2	Topics of special interest, varying from year to year. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . A maximum of 6 credits will be granted for GERM 403 or GMST 420. Equivalency: GERM403	In Person Learning	Arranged	Arranged
GMST_V 420-A_201	GMST_V	420	A	A_201	W2	Topics of special interest, varying from year to year. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . A maximum of 6 credits will be granted for GERM 403 or GMST 420. Equivalency: GERM403	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

GMST_V 424-201	GMST_V	424		201	Selected Issues in German-speaking Culture	W2	In depth study of one topic from German-speaking cultural history, varying from year to year. Find out which topic/s will be explored in the current or coming year at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 408 or GMST 424. Equivalency: GERM408	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GMST_V 440-A_201	GMST_V	440	A	A_201	Selected topics in Germanophone Literature	W2	Topics of special interest, varying from year to year. Find out which topic/s will be explored in the current or coming year at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . A maximum of 6 credits will be granted for GERM 406 or GMST 440. Equivalency: GERM406	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
GMST_V 445-201	GMST_V	445		201	Words and Music in Germanophone Literature	W2	Individual works and genres in which words and music together form a whole. Possible topics include the Lutheran Hymn, the Volkslied, the Romantic Lied and Brecht songs, operas by Mozart, Wagner and Strauss, and music and the musician as a subject in literature. No musical training is necessary. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 402 or GMST 445. Equivalency: GERM402	Multi-access Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GMST_V 475-201	GMST_V	475		201	German Media Studies	W2	Major themes and methods in German media studies. Find out which themes will be explored in the current or coming year at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a> . Credit will be granted for only one of GERM 412 or GMST 475. Equivalency: GERM412	In Person Learning	Thu	3:30 p.m. - 6:30 p.m.
GMST_V 500-A_101	GMST_V	500	A	A_101	German Studies Research Methods	W1	A maximum of 6 credits will be granted for GERM 500 or GMST 500. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 500	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
GMST_V 500-B_201	GMST_V	500	B	B_201	German Studies Research Methods	W2	A maximum of 6 credits will be granted for GERM 500 or GMST 500. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 500	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
GMST_V 506-A_101	GMST_V	506	A	A_101	Intercultural Competence	W1	A maximum of 6 credits will be granted for GERM 506 or GMST 506. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 506	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
GMST_V 517-A_101	GMST_V	517	A	A_101	Studies in the Literature of the 19th Century	W1	A maximum of 6 credits will be granted for GERM 517 or GMST 517. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 517	Multi-access Learning	Tue	5:00 p.m. - 8:00 p.m.
GMST_V 521-201	GMST_V	521		201	German Cultural Studies	W2	Credit will be granted for only one of GERM 521 or GMST 521. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 521	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GMST_V 531-D_101	GMST_V	531	D	D_101	Special Topics	W1	A maximum of 6 credits will be granted for GERM 531 or GMST 531. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 531	In Person Learning	Arranged	Arranged
GMST_V 547-B_101	GMST_V	547	B	B_101	Guided Research	W1	A maximum of 6 credits will be granted for GERM 547 or GMST 547. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 547	In Person Learning	Arranged	Arranged
GMST_V 547-B_201	GMST_V	547	B	B_201	Guided Research	W2	A maximum of 6 credits will be granted for GERM 547 or GMST 547. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 547	In Person Learning	Arranged	Arranged
GMST_V 548-101	GMST_V	548		101	Major Essay	W1	Credit will be granted for only one of GERM 548 or GMST 548. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 548	In Person Learning	Arranged	Arranged
GMST_V 548-201	GMST_V	548		201	Major Essay	W2	Credit will be granted for only one of GERM 548 or GMST 548. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 548	In Person Learning	Arranged	Arranged
GMST_V 548-301	GMST_V	548		301	Major Essay	W1-2	Credit will be granted for only one of GERM 548 or GMST 548. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 548	In Person Learning	Arranged	Arranged
GMST_V 549-101	GMST_V	549		101	Master's Thesis	W1	A maximum of 9 credits will be granted for GERM 549 or GMST 549. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 549	In Person Learning	Arranged	Arranged
GMST_V 549-201	GMST_V	549		201	Master's Thesis	W2	A maximum of 9 credits will be granted for GERM 549 or GMST 549. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 549	In Person Learning	Arranged	Arranged
GMST_V 549-301	GMST_V	549		301	Master's Thesis	W1-2	A maximum of 9 credits will be granted for GERM 549 or GMST 549. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM 549	In Person Learning	Arranged	Arranged
GMST_V 649-101	GMST_V	649		101	Doctoral Dissertation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GMST_V 649-201	GMST_V	649		201	Doctoral Dissertation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GMST_V 649-301	GMST_V	649		301	Doctoral Dissertation	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GREK_V 101-001	GREK_V	101		001	Beginning Ancient Greek I	W1	Classical and Hellenistic Greek, Part I.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.

GREK_V 101-002	GREK_V	101	002	Beginning Ancient Greek I	W1	Classical and Hellenistic Greek, Part I.	In Person Learning	Arranged	Arranged	
GREK_V 101-003	GREK_V	101	003	Beginning Ancient Greek I	W1	Classical and Hellenistic Greek, Part I.	In Person Learning	Arranged	Arranged	
GREK_V 102-001	GREK_V	102	001	Beginning Ancient Greek II	W2	Classical and Hellenistic Greek, Part II. Prerequisite: GREK 101.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
GREK_V 201-001	GREK_V	201	001	Intermediate Ancient Greek I	W1	Completion of the grammatical foundations of Ancient Greek, Part I. Prerequisite: GREK 102.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.	
GREK_V 202-001	GREK_V	202	001	Intermediate Ancient Greek II	W2	Completion of the grammatical foundations of Ancient Greek, Part II; introduction to the reading of unadapted passages of Greek literature. Prerequisite: GREK 201.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.	
GREK_V 202-001	GREK_V	202	D01	Intermediate Ancient Greek II	W2	Completion of the grammatical foundations of Ancient Greek, Part II; introduction to the reading of unadapted passages of Greek literature. Prerequisite: GREK 201.	In Person Learning	Arranged	Arranged	
GREK_V 351-001	GREK_V	351	001	Reading Ancient Greek: Prose	W2	Readings in the major authors in Greek prose. Prerequisite: GREK 202.	In Person Learning	Arranged	Arranged	
GREK_V 352-001	GREK_V	352	001	Reading Ancient Greek: Verse	W1	Readings in the major authors in Greek verse. Prerequisite: GREK 202.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
GREK_V 352-002	GREK_V	352	002	Reading Ancient Greek: Verse	W2	Readings in the major authors in Greek verse. Prerequisite: GREK 202.	In Person Learning	Arranged	Arranged	
GREK_V 401-D_001	GREK_V	401	D	D_001	W2	Greek Prose	Studies in history, philosophy and/or oratory. A maximum of 12 credits can be granted for either one of or any combination of GREK 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GREK_V 402-B_001	GREK_V	402	B	B_001	W1	Greek Verse	Studies in epic, tragedy and/or comedy. A maximum of 12 credits can be granted for either one of or any combination of GREK 402, GREK 502. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GREK_V 403-C_001	GREK_V	403	C	C_001	W2	Studies in Ancient Greek Prose and Verse	Thematic studies using both Greek prose and Greek verse. A maximum of 12 credits can be granted for either one of or any combination of GREK 403, GREK 503. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.	In Person Learning	Arranged	Arranged
GREK_V 501-D_001	GREK_V	501	D	D_001	W2	Greek Prose	History, philosophy and/or oratory. A maximum of 12 credits can be granted for either one of or any combination of GREK 401, GREK 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GREK_V 502-B_001	GREK_V	502	B	B_001	W1	Greek Verse	Epic, tragedy and/or comedy. A maximum of 12 credits can be granted for either one of or any combination of GREK 402, GREK 502. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GREK_V 503-C_001	GREK_V	503	C	C_001	W2	Studies in Ancient Greek Prose and Verse	Advanced thematic studies using both Greek prose and Greek verse. A maximum of 12 credits can be granted for either one of or any combination of GREK 403, GREK 503. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GREK_V 649-003	GREK_V	649	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
GRS_V 290-A_001	GRS_V	290	A	A_001	W1-2	Global Issues in Cultural Context	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 290-A_102	GRS_V	290	A	A_102	W1-2	Global Issues in Cultural Context	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 290-A_103	GRS_V	290	A	A_103	W2	Global Issues in Cultural Context	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 290-A_104	GRS_V	290	A	A_104	W1-2	Global Issues in Cultural Context	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 290-A_IX1	GRS_V	290	A	A_IX1	W1-2	Global Issues in Cultural Context	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Arranged	Arranged
GRS_V 290-A_IX2	GRS_V	290	A	A_IX2	W1-2	Global Issues in Cultural Context	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Arranged	Arranged
GRS_V 290-A_IX3	GRS_V	290	A	A_IX3	W2	Global Issues in Cultural Context	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Arranged	Arranged

GRS_V 290-A_IX4	GRS_V	290	A	A_IX4	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.	In Person Learning	Arranged	Arranged
GRS_V 300-001	GRS_V	300		001	Global Water and Energy Nexus	W2	Energy water nexus for sustaining ecological goods and services, and food security; significance in global resource systems. Prerequisite: One of CHEM 111, CHEM 121 and one of BIOL 112, BIOL 121, BIOL 140.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GRS_V 390-A_001	GRS_V	390	A	A_001	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 390-A_102	GRS_V	390	A	A_102	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Arranged	Arranged
GRS_V 390-A_103	GRS_V	390	A	A_103	Global Issues in Cultural Context	W2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 390-A_104	GRS_V	390	A	A_104	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 390-A_IX1	GRS_V	390	A	A_IX1	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Arranged	Arranged
GRS_V 390-A_IX2	GRS_V	390	A	A_IX2	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Arranged	Arranged
GRS_V 390-A_IX3	GRS_V	390	A	A_IX3	Global Issues in Cultural Context	W2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Arranged	Arranged
GRS_V 390-A_IX4	GRS_V	390	A	A_IX4	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken while studying abroad. [0-0-2] Prerequisite: GRS 290	In Person Learning	Arranged	Arranged
GRS_V 397-A_001	GRS_V	397	A	A_001	Regional Directed Field Studies	W1	Participating students may be assessed a fee. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRS_V 397-A_002	GRS_V	397	A	A_002	Regional Directed Field Studies	W2	Participating students may be assessed a fee. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRS_V 397-B_003	GRS_V	397	B	B_003	Regional Directed Field Studies	W1	Participating students may be assessed a fee. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRS_V 397-B_004	GRS_V	397	B	B_004	Regional Directed Field Studies	W2	Participating students may be assessed a fee. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRS_V 490-001	GRS_V	490		001	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken after studying abroad. [0-0-2] Prerequisite: GRS 390	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 490-102	GRS_V	490		102	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken after studying abroad. [0-0-2] Prerequisite: GRS 390	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 490-103	GRS_V	490		103	Global Issues in Cultural Context	W2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken after studying abroad. [0-0-2] Prerequisite: GRS 390	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
GRS_V 490-104	GRS_V	490		104	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken after studying abroad. [0-0-2] Prerequisite: GRS 390	In Person Learning	Arranged	Arranged
GRS_V 490-105	GRS_V	490		105	Global Issues in Cultural Context	W1-2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken after studying abroad. [0-0-2] Prerequisite: GRS 390	In Person Learning	Arranged	Arranged
GRS_V 490-106	GRS_V	490		106	Global Issues in Cultural Context	W2	Students interact face-to-face and online as a community of learners to discuss global issues in agriculture, food, and natural resources in cultural context. Typically taken after studying abroad. [0-0-2] Prerequisite: GRS 390	In Person Learning	Arranged	Arranged
GRS_V 497-B_001	GRS_V	497	B	B_001	Regional Directed Field Studies	W1	Participating students may be assessed a fee. Prerequisite: GRS 397 The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRS_V 497-B_002	GRS_V	497	B	B_002	Regional Directed Field Studies	W2	Participating students may be assessed a fee. Prerequisite: GRS 397 The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRS_V 497-B_003	GRS_V	497	B	B_003	Regional Directed Field Studies	W1-2	Participating students may be assessed a fee. Prerequisite: GRS 397 The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

GRSJ_V 497-E_101	GRSJ_V	497	E	E_101	Regional Directed Field Studies	W1-2	Participating students may be assessed a fee. Prerequisite: GRSJ 397 The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 101-101	GRSJ_V	101		101	Introduction to Social Justice	W1	An overview of intersectional feminist debates and theoretical traditions.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
GRSJ_V 101-102	GRSJ_V	101		102	Introduction to Social Justice	W1	An overview of intersectional feminist debates and theoretical traditions.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
GRSJ_V 101-201	GRSJ_V	101		201	Introduction to Social Justice	W2	An overview of intersectional feminist debates and theoretical traditions.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
GRSJ_V 101-227	GRSJ_V	101		227	Introduction to Social Justice	W2	An overview of intersectional feminist debates and theoretical traditions.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
GRSJ_V 101-99A	GRSJ_V	101		99A	Introduction to Social Justice	W1	An overview of intersectional feminist debates and theoretical traditions.	Online Learning	Arranged	Arranged
GRSJ_V 101-99C	GRSJ_V	101		99C	Introduction to Social Justice	W2	An overview of intersectional feminist debates and theoretical traditions.	Online Learning	Arranged	Arranged
GRSJ_V 102-101	GRSJ_V	102		101	Global Issues in Social Justice	W1	Intersectional feminist theory and practice, focusing on contemporary issues in a transnational context.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
GRSJ_V 102-201	GRSJ_V	102		201	Global Issues in Social Justice	W2	Intersectional feminist theory and practice, focusing on contemporary issues in a transnational context.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GRSJ_V 200-101	GRSJ_V	200		101	Gender and Environmental Justice	W1	An interdisciplinary and cross-cultural overview of contemporary environmental issues, as they relate to gender equality and social justice challenges and initiatives that respond to ecological crises. Recommended: GRSJ 101.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GRSJ_V 210-201	GRSJ_V	210		201	Gender, Race and Colonialism in the Americas	W2	Interdisciplinary exploration of the ways gender, class, sexuality and race shape modern histories in Canada, and transnationally, from 1920 to the present.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
GRSJ_V 224-A_101	GRSJ_V	224	A	A_101	Gender, Race, Sexuality, and Social Justice in Literature	W1	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
GRSJ_V 224-A_102	GRSJ_V	224	A	A_102	Gender, Race, Sexuality, and Social Justice in Literature	W1	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GRSJ_V 224-B_201	GRSJ_V	224	B	B_201	Gender, Race, Sexuality, and Social Justice in Literature	W2	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GRSJ_V 224-B_202	GRSJ_V	224	B	B_202	Gender, Race, Sexuality, and Social Justice in Literature	W2	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GRSJ_V 224-C_001	GRSJ_V	224	C	C_001	Gender, Race, Sexuality, and Social Justice in Literature	W1-2	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
GRSJ_V 224-F_99A	GRSJ_V	224	F	F_99A	Gender, Race, Sexuality, and Social Justice in Literature	W1	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Arranged	Arranged
GRSJ_V 224-F_99B	GRSJ_V	224	F	F_99B	Gender, Race, Sexuality, and Social Justice in Literature	W1	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Arranged	Arranged
GRSJ_V 224-F_99C	GRSJ_V	224	F	F_99C	Gender, Race, Sexuality, and Social Justice in Literature	W2	Techniques of literary study, with emphasis on intersectionality and the ways in which gender is represented in literature and contributions of feminism and gender studies to literary studies.	In Person Learning	Arranged	Arranged
GRSJ_V 225-101	GRSJ_V	225		101	Youth Activism and Social Justice	W1	A critical engagement with major issues, debates, and politics in feminist and social justice scholarship through an exploration of youth movements with a focus on activists, popular culture, digital activism, fan cultures, and literature by and for youth.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GRSJ_V 226-201	GRSJ_V	226		201	Human Rights and Artistic Expression: Thinking Beyond the Legal	W2	How human rights are expressed in the Arts. Critical engagement with feminist, race and social justice scholarship, and activism.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
GRSJ_V 230-101	GRSJ_V	230		101	Gender, Race, Sexuality, and Representation in Modern Asia	W1	The complex relationships between mechanisms of power, gender, and representation in Asia in different spaces examined through an interdisciplinary lens.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
GRSJ_V 235-201	GRSJ_V	235		201	Gender, Race, Sexuality, and Social Structures in Modern Asia	W2	Situates Asia in a global context and explores the complex relationships between gender, social structures, and social change.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.

GRSJ_V 300-901	GRSJ_V	300	901	Intersectional Approaches to Thinking Gender	W1	Interdisciplinary exploration of the multiple intersections between gender and (neo)colonialism, racism, poverty, ableism, and heterosexism in a globalized world; historical and cross-cultural aspects, and the social construction of sex and gender, masculinity and femininity.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GRSJ_V 300-902	GRSJ_V	300	902	Intersectional Approaches to Thinking Gender	W2	Interdisciplinary exploration of the multiple intersections between gender and (neo)colonialism, racism, poverty, ableism, and heterosexism in a globalized world; historical and cross-cultural aspects, and the social construction of sex and gender, masculinity and femininity.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GRSJ_V 300-99A	GRSJ_V	300	99A	Intersectional Approaches to Thinking Gender	W1	Interdisciplinary exploration of the multiple intersections between gender and (neo)colonialism, racism, poverty, ableism, and heterosexism in a globalized world; historical and cross-cultural aspects, and the social construction of sex and gender, masculinity and femininity.	Online Learning	Arranged	Arranged
GRSJ_V 300-99C	GRSJ_V	300	99C	Intersectional Approaches to Thinking Gender	W2	Interdisciplinary exploration of the multiple intersections between gender and (neo)colonialism, racism, poverty, ableism, and heterosexism in a globalized world; historical and cross-cultural aspects, and the social construction of sex and gender, masculinity and femininity.	Online Learning	Arranged	Arranged
GRSJ_V 301-201	GRSJ_V	301	201	Gender, Race and Indigeneity in Canada	W2	Gender and indigeneity in the documented histories and narrated lives of Indigenous people in Canada. Recommended pre-requisites: all of GRSJ 101, GRSJ 102, or third-year standing.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GRSJ_V 302-101	GRSJ_V	302	101	Pedagogies of Social Justice	W1	The intersections of gender, education, and work using sociological and economic frameworks. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
GRSJ_V 303-201	GRSJ_V	303	201	Gender, Race, Social Justice and the Law	W2	A survey of feminist legal thought and recent developments in feminism and law, with a focus on Canada. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GRSJ_V 304-101	GRSJ_V	304	101	Gaming the System: Digital Media, Social Justice, and Video Games	W1	Emerging technology in the areas of digital affect theory, cyborg feminism, critical digital humanities, critical race studies, surveillance studies, and queer game studies.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
GRSJ_V 305-201	GRSJ_V	305	201	Social Justice Issues in Community and International Organizing	W2	Critical examination and practical applications of concepts, theories, methods, and strategies of gender-aware organizing at the community and international levels. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GRSJ_V 306-101	GRSJ_V	306	101	Globalization and Social Justice: Gender, Race, and Sexuality in International Politics	W1	Critical examination of the gender dimension of globalization and the theories, discourse, and practices in international politics using gender analysis. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
GRSJ_V 307-201	GRSJ_V	307	201	Gender, Race, Sexuality, and Popular Culture	W2	Critical examination of mainstream and alternative media images of gender, race, and sexuality in the context of networked social media, film, music, and television. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
GRSJ_V 308-201	GRSJ_V	308	201	Creativity from the Margins	W2	Critical engagement with the creative process of marginalized peoples and the intersection of creative writing, social justice, and anti-racist feminism. Emphasis on how historical and social context are crucial to acts of creative writing and reading. Recommended pre-requisites: all of GRSJ 101, GRSJ 102, or third-year standing.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
GRSJ_V 310-101	GRSJ_V	310	101	Gender, Race, Social Justice and Health	W1	Interdisciplinary introduction to gender and health issues using selected theoretical frameworks. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
GRSJ_V 311-201	GRSJ_V	311	201	African/Black Women in the Americas	W2	An interdisciplinary survey of gender studies and histories of African/Black women in the Americas from the beginning of the slave trade to the present. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
GRSJ_V 315-201	GRSJ_V	315	201	Critical Racial Theories	W2	Critical theories of racial and cultural difference. Initial formulations of these against scientific racism and their later transformation by historical, social, and global-historical accounts of racial subjugation.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
GRSJ_V 316-101	GRSJ_V	316	101	Queer and Trans of Colour Theorizing	W1	The intellectual and political interventions of queer of colour theorizing in the gender and sexual politics of racial and imperial projects, including its engagements with women of colour feminisms, settler colonial and indigenous studies, and immigration and diaspora studies.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
GRSJ_V 320-201	GRSJ_V	320	201	Feminist Anti-Racist Pedagogies	W2	Feminist pedagogies and feminist debates about pedagogy in formal, nonformal, and informal educational settings. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Arranged	Arranged
GRSJ_V 325-101	GRSJ_V	325	101	Anti-colonial and Feminist Qualitative Methodologies	W1	Data collection techniques, the politics of interpretation, and the formulation of a research proposal using a feminist, anti-racist framework. Recommended pre-requisites: all of GRSJ 101, GRSJ 102. Restricted to GRSJ Majors and Minors in third-year standing or above.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
GRSJ_V 326-101	GRSJ_V	326	101	The Politics of Gender, Families, and Nation-Building	W1	Investigation of historical and contemporary scholarship on the diversity of families, focusing on differences of gender, sexuality, race/ethnicity, and social class within and across national borders. Recommended pre-requisites: all of GRSJ 101, GRSJ 102. Restricted to GRSJ Majors and Minors in third-year standing or above.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GRSJ_V 327-201	GRSJ_V	327	201	Theories of Representation and Difference	W2	Feminist scholarship emphasizing languages and processes of representation and the construction of difference in cultural discourses and institutions. Recommended pre-requisites: all of GRSJ 101, GRSJ 102. Restricted to GRSJ Majors and Minors in third-year standing or above.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
GRSJ_V 328-201	GRSJ_V	328	201	Theories of Subjectivity	W2	How feminist scholarship has shaped and reinterpreted accounts of the subject, drawing on such traditions as structuralism, poststructuralism, psychoanalysis, postcolonialism, postmodernism, and Queer Theory. Recommended pre-requisites: All of GRSJ 101, GRSJ 102. Restricted to GRSJ Majors and Minors in third-year standing or above.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
GRSJ_V 401-201	GRSJ_V	401	201	Body, Gender and Society	W2	An interdisciplinary examination of the body, exploring how social relations and space are implicated in the constitution and experience of gendered bodies and identities, with an emphasis on feminist analyses of body-social relations. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
GRSJ_V 410-101	GRSJ_V	410	101	Religious Feminisms	W1	Examines religious feminisms from three Abrahamic traditions. An in-depth study of challenges various doctrinal discourses and practices pose for feminist projects. Recommended pre-requisites: all of GRSJ 101, GRSJ 102.	In Person Learning	Arranged	Arranged

GRSJ_V 415-201	GRSJ_V	415	201	Critical Racial and Anti-Colonial Feminist Approaches	W2	Critical anti-colonial and feminist analyses of colonial and racial subjugation, as well as the many modalities of indigenous and minority resistance.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.	
GRSJ_V 422-101	GRSJ_V	422	101	Advanced Research Seminar	W1	Critical theories, methodologies, ethics and practices appropriate for advanced feminist research. Recommended pre-requisite: all of GRSJ 101, GRSJ 102. Restricted to GRSJ Majors with fourth-year standing.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.	
GRSJ_V 425-A_201	GRSJ_V	425	A	A_201	W2	Special Topics in Gender, Race, and Sexuality	Examination in depth of selected topics in gender, race, and sexuality. Consult the Student Service Centre course schedule for course offerings. May be repeated for credit. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Tue	12:00 p.m. - 3:00 p.m.
GRSJ_V 425-B_101	GRSJ_V	425	B	B_101	W1	Special Topics in Gender, Race, and Sexuality	Examination in depth of selected topics in gender, race, and sexuality. Consult the Student Service Centre course schedule for course offerings. May be repeated for credit. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
GRSJ_V 425-B_201	GRSJ_V	425	B	B_201	W2	Special Topics in Gender, Race, and Sexuality	Examination in depth of selected topics in gender, race, and sexuality. Consult the Student Service Centre course schedule for course offerings. May be repeated for credit. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Arranged	Arranged
GRSJ_V 425-C_101	GRSJ_V	425	C	C_101	W1	Special Topics in Gender, Race, and Sexuality	Examination in depth of selected topics in gender, race, and sexuality. Consult the Student Service Centre course schedule for course offerings. May be repeated for credit. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.
GRSJ_V 450-A_101	GRSJ_V	450	A	A_101	W1	Directed Studies	General reading and/or a research undertaking, with the agreement, and under supervision of, a faculty member selected by the student and approved by the GRSJ Undergraduate Advisor. A written paper or equivalent will be required. Open to GRSJ majors or minors. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 450-B_201	GRSJ_V	450	B	B_201	W2	Directed Studies	General reading and/or a research undertaking, with the agreement, and under supervision of, a faculty member selected by the student and approved by the GRSJ Undergraduate Advisor. A written paper or equivalent will be required. Open to GRSJ majors or minors. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 450-C_001	GRSJ_V	450	C	C_001	W1-2	Directed Studies	General reading and/or a research undertaking, with the agreement, and under supervision of, a faculty member selected by the student and approved by the GRSJ Undergraduate Advisor. A written paper or equivalent will be required. Open to GRSJ majors or minors. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 480-A_201	GRSJ_V	480	A	A_201	W2	Decolonizing Praxis: A Practicum in Social Justice	Connects feminist and critical race theory and practice through placement in a community organization. As is the case with all UBC practice-related courses, this course requires a Criminal Record Check. Open to GRSJ Majors. This course is graded for Pass/Fail. Restricted to GRSJ Majors with fourth-year standing. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of GRSJ 101, GRSJ 102 and two of GRSJ 325, GRSJ 326, GRSJ 327, GRSJ 328. Consult the department.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
GRSJ_V 500-001	GRSJ_V	500	001	Intersectional Issues in Social Justice and Equality Studies	W1-2	Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.	
GRSJ_V 501-101	GRSJ_V	501	101	Issues in Decolonizing and Feminist Methodologies	W1	Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
GRSJ_V 502-101	GRSJ_V	502	101	Issues in Gender, Sexuality, and Critical Race Theories	W1	Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 1:00 p.m.	
GRSJ_V 503-E_101	GRSJ_V	503	E	E_101	W1	Special Topics in Feminist Studies	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GRSJ_V 503-E_201	GRSJ_V	503	E	E_201	W2	Special Topics in Feminist Studies	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
GRSJ_V 505-A_101	GRSJ_V	505	A	A_101	W1	Directed Reading in Advanced Feminist Studies	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 505-B_201	GRSJ_V	505	B	B_201	W2	Directed Reading in Advanced Feminist Studies	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 505-C_001	GRSJ_V	505	C	C_001	W1-2	Directed Reading in Advanced Feminist Studies	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 510-001	GRSJ_V	510	001	Extended Essay	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
GRSJ_V 510-101	GRSJ_V	510	101	Extended Essay	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
GRSJ_V 510-201	GRSJ_V	510	201	Extended Essay	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	

GRSJ_V 511-201	GRSJ_V	511		201	Difficult Knowledge: Ethics and Praxis of Research in Challenging Settings	W2	Interdisciplinary seminar considering the ethics and praxis of working with difficult knowledge, such as highly divisive questions of memory and responsibility in the context and aftermaths of oppression and mass violence. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
GRSJ_V 515-A_101	GRSJ_V	515	A	A_101	Critical and Creative Social Justice Studies Seminars	W1	The potential of creative work to disrupt ingrained ideas and representations by appealing to the senses. Study and engage with academics, artists, and activists interested in how art contributes to critical and engaged social justice work. Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GRSJ_V 515-A_201	GRSJ_V	515	A	A_201	Critical and Creative Social Justice Studies Seminars	W2	The potential of creative work to disrupt ingrained ideas and representations by appealing to the senses. Study and engage with academics, artists, and activists interested in how art contributes to critical and engaged social justice work. Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
GRSJ_V 520-B_001	GRSJ_V	520	B	B_001	M.A. Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 520-B_101	GRSJ_V	520	B	B_101	M.A. Thesis	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 520-B_201	GRSJ_V	520	B	B_201	M.A. Thesis	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
GRSJ_V 606-001	GRSJ_V	606		001	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
GRSJ_V 606-101	GRSJ_V	606		101	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged
GRSJ_V 606-201	GRSJ_V	606		201	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged
GSAT_V 501-001	GSAT_V	501		001	Intensive Laboratory Course	W1	Theory, application, and operation of instrumentation employed in modern genomics research: data analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GSAT_V 502-001	GSAT_V	502		001	Advanced Concepts in Genome Science and Technology	W1-2	Current approaches to high-throughput, system-wide analysis, and manipulation of biological systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 4:30 p.m.
GSAT_V 503-003	GSAT_V	503		003	Directed Studies in Genome Science and Technology	W1-2	Advanced study under the direction of a faculty member composed of laboratory sessions and/or directed readings related to selected areas of genome science and technology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GSAT_V 540-A_201	GSAT_V	540	A	A_201	Statistical Methods for High Dimensional Biology	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: STAT540, BIOF540	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
GSAT_V 540-A_S2B	GSAT_V	540	A	A_S2B	Statistical Methods for High Dimensional Biology	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: STAT540, BIOF540	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
GSAT_V 599-001	GSAT_V	599		001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GSAT_V 599-002	GSAT_V	599		002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GSAT_V 599-003	GSAT_V	599		003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
GSAT_V 699-001	GSAT_V	699		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
GSAT_V 699-002	GSAT_V	699		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
GSAT_V 699-003	GSAT_V	699		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
HEBR_V 101-001	HEBR_V	101		001	Beginning Biblical Hebrew I	W1	Biblical Hebrew, with an introduction to vocabulary and grammar, and the reading of simple biblical texts in the original.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
HEBR_V 205-001	HEBR_V	205		001	Beginning Biblical Hebrew II	W2	Biblical Hebrew, with further introduction to vocabulary and grammar, and the reading of biblical texts in the original. Credit will be granted for only one of HEBR 102 or HEBR 205. Prerequisite: HEBR 101. Equivalency: HEBR 102	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.

HGSE_V 352-610	HGSE_V	352	610	Indigenous Governance and Land Stewardship	W1	The political, economic, and legal environment of Aboriginal-Canadian relations and its influence on resource use and management; review of historic relationships, emerging case law, and new reconciliation frameworks.	In Person Learning	Arranged	Arranged
HGSE_V 355-610	HGSE_V	355	610	Applied Ecology of Coastal Terrestrial Ecosystems	W1	Processes that shape coastal terrestrial ecosystems through time and applications to current ecological reality. Part of the Haida Gwaii Fall Semester. Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
HGSE_V 356-610	HGSE_V	356	610	Biophysical Dynamics of the Marine-Terrestrial Interface	W1	Nutrient cycling between the marine environment and coastal forest ecosystems; how the physical characteristics of this interface affect inputs; which species play a pivotal role in driving interactions. Part of the Haida Gwaii Fall Semester. Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
HGSE_V 357-610	HGSE_V	357	610	Ecology and Management of Island Wildlife	W1	Unique biological attributes of island wildlife, such as subspecies, isolated populations, and distinct evolutionary pathways, with a focus on endemic species on Haida Gwaii. Part of the Haida Gwaii Fall Semester. Credit will be granted for only one of FRST 395 or HGSE 357. Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
HGSE_V 359-610	HGSE_V	359	610	Ecosystem-Based Management Seminar	W1	History, definitions, and applications of EBM; challenges of achieving both economic and environmental well-being with a focus on resource use and management on Haida Gwaii. Part of the Haida Gwaii Fall Semester. Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
HGSE_V 360-610	HGSE_V	360	610	Ocean People, Culture and Tradition	W1	The relationship between the culture of the Haida people and their marine environment; and traditional and modern approaches to management of marine resources.	Online Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
HGSE_V 361-610	HGSE_V	361	610	Fisheries Co-Management of the North Pacific Coast	W1	Concepts of fisheries co-management with a focus on the North Pacific Coast; examples of other comanagement structures regionally and internationally.	Online Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
HGSE_V 370-610	HGSE_V	370	610	Introduction to Resilience Theory in Community	W2	Theory of social-ecological resilience as applied to cross-cultural community settings, using case studies from communities on Haida Gwaii and other exceptional cases of community resilience.	In Person Learning	Arranged	Arranged
HGSE_V 371-610	HGSE_V	371	610	Re-Storying History: Indigenous Perspective	W2	Exploration of the diversity of Indigenous peoples of British Columbia and Canada and their unique histories, beginning with origin stories and oral histories and moving on to the histories and relationships that Indigenous groups have with the federal, provincial and territorial governments.	In Person Learning	Arranged	Arranged
HGSE_V 372-610	HGSE_V	372	610	Language and Cultural Continuity	W2	An exploration of language as a means of looking at culture, and cultural continuity. Using Xaad Kilthe Haida language as a framing device, students will explore the integral connections between language, culture, history, land, health and resilience.	In Person Learning	Arranged	Arranged
HGSE_V 373-610	HGSE_V	373	610	Community Planning and Development for Resilience	W2	An examination of the challenges and opportunities of developing and diversifying resilient resource dependent cross-cultural, rural communities using Haida Gwaii's comprehensive community planning as a case study.	In Person Learning	Arranged	Arranged
HGSE_V 381-610	HGSE_V	381	610	Ecological Economics	W2	Underlying philosophy and principles of ecological economics, including the cascading effects of change, unintended consequences of change, and why it might be difficult to separate our ecological goals from our political realities.	In Person Learning	Arranged	Arranged
HGSE_V 394-610	HGSE_V	394	610	Marine Conservation in British Columbia	W2	Perspectives and methodologies applied to the conservation of marine environments in British Columbia.	Online Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
HINU_V 102-001	HINU_V	102	001	Introductory Hindi-Urdu	W1-2	Spoken and written Hindi and Urdu. As of 2011W, credit will be granted for only one of HINU 100/101 or HINU 102.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
HINU_V 200-001	HINU_V	200	001	Intermediate Hindi-Urdu	W1-2	Conversation and grammar; an introduction to Hindi literature; an introduction to the Urdu script. As of 2011W, credit will be granted for only one of HINU 201/202 or HINU 200. Recommended pre-requisites: one of HINU 101, HINU 102.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
HIST_V 100-101	HIST_V	100	101	What is History?	W1	The discipline of history through the study of questions, sources, methods, and controversies. Includes case studies of key turning points in world history to examine what historians do and why it matters.	In Person Learning	Tue Thu	10:00 a.m. - 11:00 a.m.
HIST_V 100-L1A	HIST_V	100	L1A	What is History?	W1	The discipline of history through the study of questions, sources, methods, and controversies. Includes case studies of key turning points in world history to examine what historians do and why it matters.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 100-L1B	HIST_V	100	L1B	What is History?	W1	The discipline of history through the study of questions, sources, methods, and controversies. Includes case studies of key turning points in world history to examine what historians do and why it matters.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
HIST_V 100-L1C	HIST_V	100	L1C	What is History?	W1	The discipline of history through the study of questions, sources, methods, and controversies. Includes case studies of key turning points in world history to examine what historians do and why it matters.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 100-L1D	HIST_V	100	L1D	What is History?	W1	The discipline of history through the study of questions, sources, methods, and controversies. Includes case studies of key turning points in world history to examine what historians do and why it matters.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
HIST_V 101-001	HIST_V	101	001	Global History to 1500 CE	W1-2	Introduction to premodern human societies of Asia, Africa, Europe, and the Americas and cultural, political, social, economic, and religious exchanges from a global history perspective and introduction to historical practices.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
HIST_V 101-L01	HIST_V	101	L01	Global History to 1500 CE	W1-2	Introduction to premodern human societies of Asia, Africa, Europe, and the Americas and cultural, political, social, economic, and religious exchanges from a global history perspective and introduction to historical practices.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 102-001	HIST_V	102	001	World History from 1500 to the Twentieth Century	W1-2	The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.	In Person Learning	Mon Wed	3:00 p.m. - 4:00 p.m.



HIST_V 103-L2D	HIST_V	103		L2D	World History Since 1900	W1-2	International relations; changes in the nation-state system; the emergence and impact of major political ideologies; genocide; decolonization; the globalization of trade; and the dynamics of economic, social, cultural, and environmental change in a global context.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 103-L2E	HIST_V	103		L2E	World History Since 1900	W1-2	International relations; changes in the nation-state system; the emergence and impact of major political ideologies; genocide; decolonization; the globalization of trade; and the dynamics of economic, social, cultural, and environmental change in a global context.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
HIST_V 103-L2F	HIST_V	103		L2F	World History Since 1900	W1-2	International relations; changes in the nation-state system; the emergence and impact of major political ideologies; genocide; decolonization; the globalization of trade; and the dynamics of economic, social, cultural, and environmental change in a global context.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
HIST_V 103-L2G	HIST_V	103		L2G	World History Since 1900	W1-2	International relations; changes in the nation-state system; the emergence and impact of major political ideologies; genocide; decolonization; the globalization of trade; and the dynamics of economic, social, cultural, and environmental change in a global context.	In Person Learning	Arranged	Arranged
HIST_V 103-L2H	HIST_V	103		L2H	World History Since 1900	W1-2	International relations; changes in the nation-state system; the emergence and impact of major political ideologies; genocide; decolonization; the globalization of trade; and the dynamics of economic, social, cultural, and environmental change in a global context.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
HIST_V 104-A_227	HIST_V	104	A	A_227	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Tue Thu	3:00 p.m. - 4:00 p.m.
HIST_V 104-A_L1A	HIST_V	104	A	A_L1A	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
HIST_V 104-A_L1B	HIST_V	104	A	A_L1B	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
HIST_V 104-A_L1C	HIST_V	104	A	A_L1C	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 104-A_L1D	HIST_V	104	A	A_L1D	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
HIST_V 104-E_101	HIST_V	104	E	E_101	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.
HIST_V 104-E_L01	HIST_V	104	E	E_L01	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Wed	2:00 p.m. - 3:30 p.m.
HIST_V 104-F_101	HIST_V	104	F	F_101	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Mon	9:30 a.m. - 11:00 a.m.
HIST_V 104-F_L01	HIST_V	104	F	F_L01	Topics in World History	W1	Thematically-organized topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.	In Person Learning	Wed	9:30 a.m. - 11:00 a.m.
HIST_V 105-B_201	HIST_V	105	B	B_201	Contemporary Global Issues in Historical Perspective	W2	Places issues and problems of current relevance such as disease, terrorism, drugs, or ethnic conflict in historical perspective. Each section will explore a single theme. Check with department for course offerings.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
HIST_V 105-B_L01	HIST_V	105	B	B_L01	Contemporary Global Issues in Historical Perspective	W2	Places issues and problems of current relevance such as disease, terrorism, drugs, or ethnic conflict in historical perspective. Each section will explore a single theme. Check with department for course offerings.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
HIST_V 106-201	HIST_V	106		201	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Mon	12:00 p.m. - 1:30 p.m.
HIST_V 106-227	HIST_V	106		227	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
HIST_V 106-L1A	HIST_V	106		L1A	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
HIST_V 106-L1B	HIST_V	106		L1B	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 106-L1D	HIST_V	106		L1D	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
HIST_V 106-L1E	HIST_V	106		L1E	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Arranged	Arranged
HIST_V 106-L2A	HIST_V	106		L2A	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.

HIST_V 106-L2B	HIST_V	106		L2B	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 106-L2C	HIST_V	106		L2C	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 106-L2D	HIST_V	106		L2D	Global Environmental History	W2	The impact humans have had on the environment, and the ways in which the physical environment has shaped human history: climate, agriculture, energy use, and urbanization.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
HIST_V 107-101	HIST_V	107		101	Global Indigenous Histories	W1	An introduction to the experiences of Indigenous peoples and the nature of colonialisms around the world since 1500, and an introduction to historical practices and perspectives.	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.
HIST_V 107-201	HIST_V	107		201	Global Indigenous Histories	W2	An introduction to the experiences of Indigenous peoples and the nature of colonialisms around the world since 1500, and an introduction to historical practices and perspectives.	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.
HIST_V 107-L01	HIST_V	107		L01	Global Indigenous Histories	W1	An introduction to the experiences of Indigenous peoples and the nature of colonialisms around the world since 1500, and an introduction to historical practices and perspectives.	In Person Learning	Wed	2:00 p.m. - 3:30 p.m.
HIST_V 107-L2A	HIST_V	107		L2A	Global Indigenous Histories	W2	An introduction to the experiences of Indigenous peoples and the nature of colonialisms around the world since 1500, and an introduction to historical practices and perspectives.	In Person Learning	Wed	2:00 p.m. - 3:30 p.m.
HIST_V 108-101	HIST_V	108		101	Global History of Capitalism	W1	The history of capitalism in its global dimension from the beginnings to the age of industrialization. An investigation of economies - in both their practices and cultures - around the world and across the ages from ancient times to the modern era.	In Person Learning	Arranged	Arranged
HIST_V 108-L01	HIST_V	108		L01	Global History of Capitalism	W1	The history of capitalism in its global dimension from the beginnings to the age of industrialization. An investigation of economies - in both their practices and cultures - around the world and across the ages from ancient times to the modern era.	In Person Learning	Arranged	Arranged
HIST_V 201-201	HIST_V	201		201	History Through Photographs	W2	The discipline of history through the study of photographs. Explores themes such as colonialism, orientalism, the mass media, representations of gender and sexuality, and protest through photographic evidence.	Multi-access Learning	Mon	9:30 a.m. - 11:00 a.m.
HIST_V 201-L01	HIST_V	201		L01	History Through Photographs	W2	The discipline of history through the study of photographs. Explores themes such as colonialism, orientalism, the mass media, representations of gender and sexuality, and protest through photographic evidence.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
HIST_V 201-L02	HIST_V	201		L02	History Through Photographs	W2	The discipline of history through the study of photographs. Explores themes such as colonialism, orientalism, the mass media, representations of gender and sexuality, and protest through photographic evidence.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 201-L03	HIST_V	201		L03	History Through Photographs	W2	The discipline of history through the study of photographs. Explores themes such as colonialism, orientalism, the mass media, representations of gender and sexuality, and protest through photographic evidence.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 201-L04	HIST_V	201		L04	History Through Photographs	W2	The discipline of history through the study of photographs. Explores themes such as colonialism, orientalism, the mass media, representations of gender and sexuality, and protest through photographic evidence.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 202-B_101	HIST_V	202	B	B_101	Gateway to the Middle Ages	W1	Problems and themes of medieval European History through the close study of the people and cultures that produced them.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
HIST_V 202-B_101	HIST_V	202	B	B_101	Gateway to the Middle Ages	W1	Problems and themes of medieval European History through the close study of the people and cultures that produced them.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
HIST_V 204-201	HIST_V	204		201	History Through Video Games	W2	Exploration of global histories through video games and uses of video games for research by historians.	In Person Learning	Mon	3:30 p.m. - 5:00 p.m.
HIST_V 220-A_201	HIST_V	220	A	A_201	History of Europe	W2	Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, nationalism, industrialization, revolution, total war, globalization, genocide, or environmental change.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
HIST_V 220-A_L1C	HIST_V	220	A	A_L1C	History of Europe	W2	Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, nationalism, industrialization, revolution, total war, globalization, genocide, or environmental change.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
HIST_V 220-A_L1D	HIST_V	220	A	A_L1D	History of Europe	W2	Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, nationalism, industrialization, revolution, total war, globalization, genocide, or environmental change.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 220-A_L1E	HIST_V	220	A	A_L1E	History of Europe	W2	Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, nationalism, industrialization, revolution, total war, globalization, genocide, or environmental change.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
HIST_V 220-A_L1F	HIST_V	220	A	A_L1F	History of Europe	W2	Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, nationalism, industrialization, revolution, total war, globalization, genocide, or environmental change.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 220-A_L1G	HIST_V	220	A	A_L1G	History of Europe	W2	Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, nationalism, industrialization, revolution, total war, globalization, genocide, or environmental change.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.

HIST_V 220-A_L1H	HIST_V	220	A	A_L1H	History of Europe	W2	Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, nationalism, industrialization, revolution, total war, globalization, genocide, or environmental change.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
HIST_V 235-101	HIST_V	235		101	History of Canada: Moments that Matter	W1	An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonialism to the twenty-first century.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
HIST_V 235-L1A	HIST_V	235		L1A	History of Canada: Moments that Matter	W1	An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonialism to the twenty-first century.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
HIST_V 235-L1B	HIST_V	235		L1B	History of Canada: Moments that Matter	W1	An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonialism to the twenty-first century.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
HIST_V 235-L1C	HIST_V	235		L1C	History of Canada: Moments that Matter	W1	An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonialism to the twenty-first century.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 235-L1E	HIST_V	235		L1E	History of Canada: Moments that Matter	W1	An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonialism to the twenty-first century.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 235-L1F	HIST_V	235		L1F	History of Canada: Moments that Matter	W1	An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonialism to the twenty-first century.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
HIST_V 235-L1K	HIST_V	235		L1K	History of Canada: Moments that Matter	W1	An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonialism to the twenty-first century.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
HIST_V 236-201	HIST_V	236		201	Introduction to Public History in Canada: Confronting the Canadian Past	W2	An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience.	Multi-access Learning	Mon	1:00 p.m. - 2:00 p.m.
HIST_V 236-L1A	HIST_V	236		L1A	Introduction to Public History in Canada: Confronting the Canadian Past	W2	An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 236-L1B	HIST_V	236		L1B	Introduction to Public History in Canada: Confronting the Canadian Past	W2	An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 236-L1C	HIST_V	236		L1C	Introduction to Public History in Canada: Confronting the Canadian Past	W2	An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
HIST_V 236-L1E	HIST_V	236		L1E	Introduction to Public History in Canada: Confronting the Canadian Past	W2	An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
HIST_V 237-A_101	HIST_V	237	A	A_101	History of the United States	W1	Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
HIST_V 237-A_L01	HIST_V	237	A	A_L01	History of the United States	W1	Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture.	In Person Learning	Thu	3:00 p.m. - 4:00 p.m.
HIST_V 237-A_L02	HIST_V	237	A	A_L02	History of the United States	W1	Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
HIST_V 237-A_L03	HIST_V	237	A	A_L03	History of the United States	W1	Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
HIST_V 237-A_L04	HIST_V	237	A	A_L04	History of the United States	W1	Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 240-101	HIST_V	240		101	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.
HIST_V 240-201	HIST_V	240		201	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W2	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L01	HIST_V	240		L01	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L02	HIST_V	240		L02	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L03	HIST_V	240		L03	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged

HIST_V 240-L04	HIST_V	240		L04	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L1A	HIST_V	240		L1A	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L1B	HIST_V	240		L1B	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L1C	HIST_V	240		L1C	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L1D	HIST_V	240		L1D	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Arranged	Arranged
HIST_V 240-L3A	HIST_V	240		L3A	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Mon	3:30 p.m. - 4:30 p.m.
HIST_V 240-L3B	HIST_V	240		L3B	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
HIST_V 240-L3C	HIST_V	240		L3C	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
HIST_V 240-L3D	HIST_V	240		L3D	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
HIST_V 240-L3E	HIST_V	240		L3E	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 240-L3F	HIST_V	240		L3F	Health, Illness and Medicine I: From the Ancient World to the Early Modern Period	W1	History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions.	In Person Learning	Mon	3:30 p.m. - 4:30 p.m.
HIST_V 250-A_101	HIST_V	250	A	A_101	Latin American History	W1	Exploring themes of colonialism, indigenous life, national imaginaries, dictatorships and transitions to democracy through different forms of telling Latin American history. Includes epistolary writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonios, and plays.	In Person Learning	Arranged	Arranged
HIST_V 250-A_201	HIST_V	250	A	A_201	Latin American History	W2	Exploring themes of colonialism, indigenous life, national imaginaries, dictatorships and transitions to democracy through different forms of telling Latin American history. Includes epistolary writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonios, and plays.	In Person Learning	Mon	3:30 p.m. - 5:00 p.m.
HIST_V 250-A_L01	HIST_V	250	A	A_L01	Latin American History	W1	Exploring themes of colonialism, indigenous life, national imaginaries, dictatorships and transitions to democracy through different forms of telling Latin American history. Includes epistolary writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonios, and plays.	In Person Learning	Arranged	Arranged
HIST_V 250-A_L2A	HIST_V	250	A	A_L2A	Latin American History	W2	Exploring themes of colonialism, indigenous life, national imaginaries, dictatorships and transitions to democracy through different forms of telling Latin American history. Includes epistolary writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonios, and plays.	In Person Learning	Wed	3:30 p.m. - 5:00 p.m.
HIST_V 252-101	HIST_V	252		101	Modern Caribbean History	W1	A survey of social, cultural and political history of Anglophone, Francophone and Spanish Caribbean from the Haitian Revolution to the present.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
HIST_V 256-101	HIST_V	256		101	History of Africa	W1	An introduction to selected themes and historical approaches in African history. These may include African geography and identities, sources and methodology, pre-modern state formation, gender relations, world religions, labour systems, colonialism, and post-colonialism. Credit will be granted for only one of AFST 256 or HIST 256. Equivalency: AFST256	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
HIST_V 256-L01	HIST_V	256		L01	History of Africa	W1	An introduction to selected themes and historical approaches in African history. These may include African geography and identities, sources and methodology, pre-modern state formation, gender relations, world religions, labour systems, colonialism, and post-colonialism. Credit will be granted for only one of AFST 256 or HIST 256. Equivalency: AFST256	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 256-L02	HIST_V	256		L02	History of Africa	W1	An introduction to selected themes and historical approaches in African history. These may include African geography and identities, sources and methodology, pre-modern state formation, gender relations, world religions, labour systems, colonialism, and post-colonialism. Credit will be granted for only one of AFST 256 or HIST 256. Equivalency: AFST256	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
HIST_V 256-L03	HIST_V	256		L03	History of Africa	W1	An introduction to selected themes and historical approaches in African history. These may include African geography and identities, sources and methodology, pre-modern state formation, gender relations, world religions, labour systems, colonialism, and post-colonialism. Credit will be granted for only one of AFST 256 or HIST 256. Equivalency: AFST256	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 256-L04	HIST_V	256		L04	History of Africa	W1	An introduction to selected themes and historical approaches in African history. These may include African geography and identities, sources and methodology, pre-modern state formation, gender relations, world religions, labour systems, colonialism, and post-colonialism. Credit will be granted for only one of AFST 256 or HIST 256. Equivalency: AFST256	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.

HIST_V 260-101	HIST_V	260	101	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of HIST 260 or PHIL 260. Equivalency: PHIL 260.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.	
HIST_V 260-L01	HIST_V	260	L01	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of HIST 260 or PHIL 260. Equivalency: PHIL 260.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.	
HIST_V 260-L02	HIST_V	260	L02	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of HIST 260 or PHIL 260. Equivalency: PHIL 260.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.	
HIST_V 260-L03	HIST_V	260	L03	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of HIST 260 or PHIL 260. Equivalency: PHIL 260.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.	
HIST_V 270-A_201	HIST_V	270	A	A_201	China in World History	W2	The history of China in a global context, from the earliest times to the most recent past; how China has changed the world and how engagement with the world has changed China. Credit will be granted for only one of HIST 270 or ASIA 270. Equivalency: ASIA 270	In Person Learning	Wed	4:00 p.m. - 5:30 p.m.
HIST_V 270-A_L01	HIST_V	270	A	A_L01	China in World History	W2	The history of China in a global context, from the earliest times to the most recent past; how China has changed the world and how engagement with the world has changed China. Credit will be granted for only one of HIST 270 or ASIA 270. Equivalency: ASIA 270	In Person Learning	Wed	5:30 p.m. - 7:00 p.m.
HIST_V 271-101	HIST_V	271	101	Japan and Global History, 1550 - 1900	W1	Thematic study of comparisons and relations between Japan and the world outside (primarily Europe and China). Commercial expansion, systems of world order, social institutions, religious and ideological expression, and state organization.	Multi-access Learning	Mon	11:00 a.m. - 12:30 p.m.	
HIST_V 271-L01	HIST_V	271	L01	Japan and Global History, 1550 - 1900	W1	Thematic study of comparisons and relations between Japan and the world outside (primarily Europe and China). Commercial expansion, systems of world order, social institutions, religious and ideological expression, and state organization.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.	
HIST_V 300-201	HIST_V	300	201	Vikings: Then and Now	W2	Historical and archaeological study of Viking-Age and premodern Scandinavia and the Vikings complex legacies in contemporary cultural heritage.	Hybrid Learning	Wed	11:00 a.m. - 12:30 p.m.	
HIST_V 302-001	HIST_V	302	001	History of the Indigenous Peoples of North America	W1-2	Indigenous peoples from pre-contact to the present in Canada and the U.S. Topics include colonial frontiers, disease, fur trade, government policies, environment, gender, religion, oral narratives, activism, urbanization, and identity.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.	
HIST_V 302-L01	HIST_V	302	L01	History of the Indigenous Peoples of North America	W1-2	Indigenous peoples from pre-contact to the present in Canada and the U.S. Topics include colonial frontiers, disease, fur trade, government policies, environment, gender, religion, oral narratives, activism, urbanization, and identity.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.	
HIST_V 305-101	HIST_V	305	101	History of British Columbia	W1	The social, political, cultural, environmental, and economic transformations that have made British Columbia. Topics include the histories of Indigenous and settler peoples, the modern state, migration, activism, and identity.	In Person Learning	Arranged	Arranged	
HIST_V 305-201	HIST_V	305	201	History of British Columbia	W2	The social, political, cultural, environmental, and economic transformations that have made British Columbia. Topics include the histories of Indigenous and settler peoples, the modern state, migration, activism, and identity.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.	
HIST_V 311-201	HIST_V	311	201	The British Empire after 1850	W2	Transformation of the British imperial system from the mid-nineteenth century to de-colonization and neo-colonialism after the second World War.	In Person Learning	Arranged	Arranged	
HIST_V 313-201	HIST_V	313	201	Africa from Imperialism to Independence	W2	The history of Africa in the 19th and 20th Centuries: the growth of Islam and Christianity, the impact of European colonialism, the development of nationalism, and the variety of different political and social outcomes after independence. Credit will be granted for only one of AFST 313 or HIST 313. Equivalency: AFST313	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.	
HIST_V 313-L01	HIST_V	313	L01	Africa from Imperialism to Independence	W2	The history of Africa in the 19th and 20th Centuries: the growth of Islam and Christianity, the impact of European colonialism, the development of nationalism, and the variety of different political and social outcomes after independence. Credit will be granted for only one of AFST 313 or HIST 313. Equivalency: AFST313	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.	
HIST_V 315-101	HIST_V	315	101	Britain 1750-1850	W1	Emergence of the world's first industrial society, and the political, economic, and cultural struggles accompanying this transformation.	In Person Learning	Arranged	Arranged	
HIST_V 319-101	HIST_V	319	101	Britain, 1945 to the Present	W1	Survey of recent British history, with emphasis on de-colonization, emergence of the welfare state, new social movements and patterns of immigration, and Britain's changing relationship with Europe.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.	
HIST_V 319-L1A	HIST_V	319	L1A	Britain, 1945 to the Present	W1	Survey of recent British history, with emphasis on de-colonization, emergence of the welfare state, new social movements and patterns of immigration, and Britain's changing relationship with Europe.	Online Learning	Arranged	Arranged	
HIST_V 321-B_101	HIST_V	321	B	B_101	Honours Tutorial	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
HIST_V 321-D_201	HIST_V	321	D	D_201	Honours Tutorial	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
HIST_V 323-101	HIST_V	323	101	Empires, Wars, and Revolutions in Europe and the Americas, 1763-1838	W1	Political, social, cultural, and intellectual transformations that reshaped the Atlantic world between 1763 and 1838; special attention will be given to the American, French, and Haitian Revolutions, the Latin American Wars of Independence and Canadian rebellions.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
HIST_V 324-201	HIST_V	324	201	Inventing Canada, 1840-1896	W2	An examination of political, cultural and national developments within the British North American colonies in the second half of the nineteenth century. Credit will not be granted for both HIST 324 or 326, if 326 was taken before 2007W.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	

HIST_V 325-101	HIST_V	325	101	Canada 1896-1945: Boom, Bust and War	W1	Includes Aboriginal policy, immigration and national identity; Canada, Britain and the US; World Wars; economic modernization; the Great Depression; regionalism; political and social movements; and the creation of 'Canadian' culture. Credit will only be granted for one of HIST 325 or 426, if 426 was taken before 2007W.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.	
HIST_V 326-101	HIST_V	326	101	Canada Since 1945: Affluence and Anxiety in the Atomic Age.	W1	Includes immigration policy; the welfare state; Aboriginal peoples; the Cold War; resource economies and national politics; continentalism and free trade; constitutional crises; conflicting nationalisms; and new social movements. Credit will only be granted for one of HIST 326 or 426, if 426 was taken before 2007W.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.	
HIST_V 327-201	HIST_V	327	201	Colonial America: Encounter and Settlement, 1607 - 1763	W2	Encounters between European, African, and Indigenous North American peoples as well as the history of the colonies within the Atlantic world, from the late sixteenth century to the eve of the American Revolution.	In Person Learning	Arranged	Arranged	
HIST_V 329-101	HIST_V	329	101	Heroes, Rebels, Villains, Folks: The People Who Shaped Canada	W1	Canadian history through the lens of individual people's lives and their social impact. Themes include race, class, gender, sexuality, indigeneity, colonialism, slavery, immigration, moral regulation, and activism.	In Person Learning	Arranged	Arranged	
HIST_V 329-201	HIST_V	329	201	Heroes, Rebels, Villains, Folks: The People Who Shaped Canada	W2	Canadian history through the lens of individual people's lives and their social impact. Themes include race, class, gender, sexuality, indigeneity, colonialism, slavery, immigration, moral regulation, and activism.	Multi-access Learning	Mon	9:30 a.m. - 11:00 a.m.	
HIST_V 330-101	HIST_V	330	101	History of the Global Financial Order	W1	Origins and transformation of the global financial order (18th century onward) in relation to war, state-building, international political economy, and colonialism.	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.	
HIST_V 333-A_101	HIST_V	333	A	A_101	W1	Third-Year Honours Seminar	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
HIST_V 333-B_201	HIST_V	333	B	B_201	W2	Third-Year Honours Seminar	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
HIST_V 333-C_001	HIST_V	333	C	C_001	W1-2	Third-Year Honours Seminar	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
HIST_V 335-201	HIST_V	335	201	African-American History, 1850 to the Present	W2	The history of African-Americans from the Civil War and emancipation through the present. Topics include the Jim Crow system; the Harlem Renaissance; the Civil Rights Movement; and the current economic and political status of Americans of African ancestry.	In Person Learning	Arranged	Arranged	
HIST_V 335-202	HIST_V	335	202	African-American History, 1850 to the Present	W2	The history of African-Americans from the Civil War and emancipation through the present. Topics include the Jim Crow system; the Harlem Renaissance; the Civil Rights Movement; and the current economic and political status of Americans of African ancestry.	Hybrid Learning	Wed	9:00 a.m. - 10:00 a.m.	
HIST_V 336-201	HIST_V	336	201	Imperial and Colonial Archaeology and Museums	W2	The impact of imperialism and colonialism on archaeological practice, museum collecting, and the telling of historical narratives.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.	
HIST_V 338-101	HIST_V	338	101	American Modernity: The United States, 1890-1945	W1	U.S. emergence as an industrial powerhouse and, eventually, a global superpower; responses to industrial society, meaning of modern times, economic upheaval and social change, U.S.'s role as a world power, and politics of race, ethnicity, and gender.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
HIST_V 339-201	HIST_V	339	201	The United States Since 1945: The Limits of Power	W2	American military and geo-political power during and after Cold War; wars in Korea, Vietnam, and Middle East; domestic issues including McCarthyism, social movements (blacks, women, youth, gays and lesbians, and Native Americans), consumerism, immigration, and rise of New Right.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.	
HIST_V 339-L01	HIST_V	339	L01	The United States Since 1945: The Limits of Power	W2	American military and geo-political power during and after Cold War; wars in Korea, Vietnam, and Middle East; domestic issues including McCarthyism, social movements (blacks, women, youth, gays and lesbians, and Native Americans), consumerism, immigration, and rise of New Right.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.	
HIST_V 342-201	HIST_V	342	201	Modern Jewish History	W2	A survey of the political, social, economic, and cultural history of the Jews from the beginning of the sixteenth century to the present with special emphasis on changing attitudes to Jews and Judaism, social and cultural transformations.	In Person Learning	Arranged	Arranged	
HIST_V 350-001	HIST_V	350	001	The Soviet Union	W1-2	Political, social, and cultural history of the Soviet Union and post-Soviet successor states from 1900 to the present.	In Person Learning	Arranged	Arranged	
HIST_V 350-002	HIST_V	350	002	The Soviet Union	W1-2	Political, social, and cultural history of the Soviet Union and post-Soviet successor states from 1900 to the present.	In Person Learning	Mon	11:30 a.m. - 1:00 p.m.	
HIST_V 350-L01	HIST_V	350	L01	The Soviet Union	W1-2	Political, social, and cultural history of the Soviet Union and post-Soviet successor states from 1900 to the present.	In Person Learning	Wed	11:30 a.m. - 1:00 p.m.	
HIST_V 350-L1A	HIST_V	350	L1A	The Soviet Union	W1-2	Political, social, and cultural history of the Soviet Union and post-Soviet successor states from 1900 to the present.	In Person Learning	Arranged	Arranged	
HIST_V 351-A_101	HIST_V	351	A	A_101	W1	East Central Europe in the 19th and 20th Centuries	Covers the region between Germany and Russia as well as Southeast Europe. Emphasis on comparisons with Western Europe and features that make the area significant to Europe as a whole.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
HIST_V 352-101	HIST_V	352	101	Modern Middle Eastern History	W1	Politics, culture, society, war, and diplomacy; themes include colonialism, nationalism, and authoritarianism; emphasis on the 20th and 21st centuries.	In Person Learning	Mon	12:30 p.m. - 2:00 p.m.	
HIST_V 352-L01	HIST_V	352	L01	Modern Middle Eastern History	W1	Politics, culture, society, war, and diplomacy; themes include colonialism, nationalism, and authoritarianism; emphasis on the 20th and 21st centuries.	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.	

HIST_V 354-201	HIST_V	354	201	The Ottoman Empire	W2	The rise and fall of the Ottoman empire; themes include Islamic law, politics, art, culture, gender relations, and the influence of religion on statecraft.	In Person Learning	Arranged	Arranged
HIST_V 356-201	HIST_V	356	201	Twentieth-Century Germany	W2	The political, social, and cultural history of Germany in the twentieth century.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
HIST_V 356-L1A	HIST_V	356	L1A	Twentieth-Century Germany	W2	The political, social, and cultural history of Germany in the twentieth century.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
HIST_V 357-201	HIST_V	357	201	History of Mexico	W2	Examines themes in the last five hundred years of Mexican history, with an emphasis on the critical reading of primary sources and the use of a variety of texts that may include letters, diaries, paintings, photographs, novels, and movies.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
HIST_V 362-201	HIST_V	362	201	The Islamic Golden Age	W2	Political, economic, social, and cultural history of the premodern Islamic World and its global connections during the Abbasid Caliphate, with attention to the relevance of this past to our contemporary world.	Hybrid Learning	Wed	3:00 p.m. - 4:30 p.m.
HIST_V 363-201	HIST_V	363	201	Europe in the Early Middle Ages	W2	A survey of the development of institutions, ideas and the economy in Europe from about 400 through about 1000 CE.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
HIST_V 364-201	HIST_V	364	201	Europe in the Late Middle Ages	W2	A survey of the development of institutions, ideas and the economy in Europe from about 1000 CE through the fourteenth century.	In Person Learning	Arranged	Arranged
HIST_V 365-201	HIST_V	365	201	Europe During the Renaissance	W2	The interplay between new and traditional ideas, styles, and institutions from the fourteenth to the mid-sixteenth century, with emphasis upon the relationship of social, economic, and political factors to intellectual and cultural change.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
HIST_V 366-201	HIST_V	366	201	Europe During the Reformation	W2	An examination of European history that place both the Protestant Reformation and the Catholic Reformation in the broader context of the political, social, cultural, and economic changes during the early modern era.	In Person Learning	Arranged	Arranged
HIST_V 368-101	HIST_V	368	101	Europe in the 19th Century	W1	An investigation of main themes in European history from the French Revolution to the beginning of the 20th century. Topics of particular importance are: domestic politics; the interaction of states; the formation of new states; social and economic transformations affecting the whole civilization; major cultural expressions of the century.	In Person Learning	Arranged	Arranged
HIST_V 369-101	HIST_V	369	101	Europe, 1900-1950	W1	Europe in the first half of the twentieth century. Themes include the imperialist system, two world wars and their aftermaths, political and social movements of the interwar years, the Depression, and the crisis of liberal democracy.	In Person Learning	Tue	3:30 p.m. - 5:00 p.m.
HIST_V 369-L01	HIST_V	369	L01	Europe, 1900-1950	W1	Europe in the first half of the twentieth century. Themes include the imperialist system, two world wars and their aftermaths, political and social movements of the interwar years, the Depression, and the crisis of liberal democracy.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
HIST_V 370-201	HIST_V	370	201	Europe Since 1950	W2	Europe since the middle of the twentieth century. Themes include the Cold War, the development of separate social and political systems in Western and Eastern Europe, the emergence of the welfare state, and the problems of European integration.	In Person Learning	Arranged	Arranged
HIST_V 370-L01	HIST_V	370	L01	Europe Since 1950	W2	Europe since the middle of the twentieth century. Themes include the Cold War, the development of separate social and political systems in Western and Eastern Europe, the emergence of the welfare state, and the problems of European integration.	In Person Learning	Arranged	Arranged
HIST_V 376-A_201	HIST_V	376	A	A_201	W2	Modern Japanese History Since 1830	Multi-access Learning	Mon	12:30 p.m. - 2:00 p.m.
HIST_V 376-A_L1A	HIST_V	376	A	A_L1A	W2	Modern Japanese History Since 1830	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.
HIST_V 378-101	HIST_V	378	101	History of Early China	W1	History of China from the earliest times to the disintegration of the Tang Empire. Students will acquire the analytical skills and tools to understand the origins and foundations of Chinese society. Credit will be granted for only one of HIST 378 or ASIA 320. Equivalency: ASIA 320	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
HIST_V 379-201	HIST_V	379	201	History of Later Imperial China	W2	History of China from the end of Tang to the eve of its modern transformation. Students will acquire the analytical skills and tools to understand the political, socio-economic, and cultural changes in imperial China. Equivalency: ASIA340	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
HIST_V 380-A_201	HIST_V	380	A	A_201	W2	The Making of Modern China: Nationalism, War, Revolution	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
HIST_V 380-A_L01	HIST_V	380	A	A_L01	W2	The Making of Modern China: Nationalism, War, Revolution	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
HIST_V 381-101	HIST_V	381	101	Imperialism and Nationalism in Southeast Asia	W1	The history of European imperial rule, the forms of resistance to it, and the formation of nationalist movements in Southeast Asia. The countries studied include Vietnam, Indonesia, the Philippines, Burma, and Thailand.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
HIST_V 381-L01	HIST_V	381	L01	Imperialism and Nationalism in Southeast Asia	W1	The history of European imperial rule, the forms of resistance to it, and the formation of nationalist movements in Southeast Asia. The countries studied include Vietnam, Indonesia, the Philippines, Burma, and Thailand.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
HIST_V 382-201	HIST_V	382	201	Post-Colonial Southeast Asia	W2	The history of the Japanese occupation, wars of independence, international relations of the independent nation-states, and internal armed conflicts. Special attention will be paid to the wars in Vietnam, Indonesia, and East Timor.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

HIST_V 385-101	HIST_V	385		101	India from Raj to Republic	W1	Exploration of the rise of the East India Company as territorial power, the formation of a colonial society in India, competing responses to British rule, the struggle for independence, and the legacies of partition.	Hybrid Learning	Thu	11:00 a.m. - 12:30 p.m.
HIST_V 386-A_201	HIST_V	386	A	A_201	Korea Since 1860	W2	An examination of the political, economic, social, and cultural transformations of Korea since the late nineteenth century. Topics include the end of the Choson Dynasty, the history of Japanese colonial rule, the Korean war, and the two Koreas in the international system.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
HIST_V 386-C_001	HIST_V	386	C	C_001	Korea Since 1860	W1-2	An examination of the political, economic, social, and cultural transformations of Korea since the late nineteenth century. Topics include the end of the Choson Dynasty, the history of Japanese colonial rule, the Korean war, and the two Koreas in the international system.	In Person Learning	Arranged	Arranged
HIST_V 388-201	HIST_V	388		201	India in the Early Modern World: Kings, Courtesans, and Saints	W2	History of India during the period of Mughal rule (roughly 1500-1750). Studies the role of India and the Mughals within the global dynamics of the early modern world.	Online Learning	Tue Thu	7:00 p.m. - 8:30 p.m.
HIST_V 390-A_101	HIST_V	390	A	A_101	Topics in History	W1	Topics will vary from year to year. Consult the program website <a href="https://history.ubc.ca/courses/">https://history.ubc.ca/courses/</a> for more information. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 391-101	HIST_V	391		101	Human Rights in World History	W1	Changing ideas about humanity and rights. Considers the relationship between human rights and the nation-state, imperialism, and capitalism. Assesses the efforts to end large-scale human rights violations and the role of the United Nations.	In Person Learning	Mon	12:30 p.m. - 2:00 p.m.
HIST_V 391-L01	HIST_V	391		L01	Human Rights in World History	W1	Changing ideas about humanity and rights. Considers the relationship between human rights and the nation-state, imperialism, and capitalism. Assesses the efforts to end large-scale human rights violations and the role of the United Nations.	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.
HIST_V 392-201	HIST_V	392		201	Scientific Revolution: Circulation of Knowledge in the Early Modern World	W2	The profound transformation of knowledge about the world in the context of the first global encounter of civilizations between 1450 and 1800. Explores the foundations for modern science.	In Person Learning	Arranged	Arranged
HIST_V 392-202	HIST_V	392		202	Scientific Revolution: Circulation of Knowledge in the Early Modern World	W2	The profound transformation of knowledge about the world in the context of the first global encounter of civilizations between 1450 and 1800. Explores the foundations for modern science. An examination of historical, conceptual, and methodological conditions of scientific knowledge through detailed consideration of important episodes in the history of science. Credit will be granted for only one of HIST 393 or PHIL 360. Credit will be granted for only one of HIST 393 or PHIL 360. Equivalency: PHIL 360	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
HIST_V 393-201	HIST_V	393		201	Introduction to History and Philosophy of Science	W2	Darwin and the science of evolution in nineteenth and early twentieth century. Credit will be granted for only one of HIST 394 or PHIL 364. Credit will be granted for only one of HIST 394 or PHIL 364. Equivalency: PHIL 364	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
HIST_V 394-101	HIST_V	394		101	Darwin, Evolution, and Modern History	W2	Darwin and the science of evolution in nineteenth and early twentieth century. Credit will be granted for only one of HIST 394 or PHIL 364. Credit will be granted for only one of HIST 394 or PHIL 364. Equivalency: PHIL 364	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
HIST_V 394-DNU_101	HIST_V	394		DNU_101	Darwin, Evolution, and Modern History	W1	Darwin and the science of evolution in nineteenth and early twentieth century. Credit will be granted for only one of HIST 394 or PHIL 364. Credit will be granted for only one of HIST 394 or PHIL 364. Equivalency: PHIL 364	In Person Learning	Arranged	Arranged
HIST_V 396-201	HIST_V	396		201	Environmental History of North America	W2	Overview of land use and environmental change in Canada and the United States; examines ideas and practices that shaped indigenous and non-indigenous resource exploitation, management, and activism to the end of the twentieth century.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
HIST_V 400-101	HIST_V	400		101	The Practice of Oral History	W1	The practice, ethics, and politics of oral history. Provides research training, where students design and complete projects based on oral history interviews.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.
HIST_V 402-A_201	HIST_V	402	A	A_201	Problems in International Relations	W2	Selected topics such as trade, migration, diplomacy, war, migration, colonialism, and post-colonialism. Priority for registration to majors in History or International Relations.	Online Learning	Wed	2:00 p.m. - 5:00 p.m.
HIST_V 402-C_101	HIST_V	402	C	C_101	Problems in International Relations	W1	Selected topics such as trade, migration, diplomacy, war, migration, colonialism, and post-colonialism. Priority for registration to majors in History or International Relations.	In Person Learning	Arranged	Arranged
HIST_V 403-A_201	HIST_V	403	A	A_201	Seminar in the History of International Relations	W2	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 403-B_101	HIST_V	403	B	B_101	Seminar in the History of International Relations	W1	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	2:00 p.m. - 4:00 p.m.
HIST_V 403-C_201	HIST_V	403	C	C_201	Seminar in the History of International Relations	W2	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
HIST_V 403-D_201	HIST_V	403	D	D_201	Seminar in the History of International Relations	W2	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
HIST_V 403-E_101	HIST_V	403	E	E_101	Seminar in the History of International Relations	W1	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
HIST_V 403-F_201	HIST_V	403	F	F_201	Seminar in the History of International Relations	W2	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
HIST_V 403-G_201	HIST_V	403	G	G_201	Seminar in the History of International Relations	W2	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

HIST_V 403-H_201	HIST_V	403	H	H_201	Seminar in the History of International Relations	W1	Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 406-101	HIST_V	406		101	The Second World War	W1	Precursors and consequences of the war; military, political, cultural, social, and economic histories of how the war shaped and reflected its global context. Themes include totalitarianism, genocide, and imperialism and decolonization.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
HIST_V 408-101	HIST_V	408		101	U.S. Foreign Relations from Independence to World War II	W1	U.S. foreign policy and international history. Examines the American rise to power and political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
HIST_V 408-L01	HIST_V	408		L01	U.S. Foreign Relations from Independence to World War II	W1	U.S. foreign policy and international history. Examines the American rise to power and political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
HIST_V 409-201	HIST_V	409		201	U.S. Foreign Relations since 1945	W2	U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
HIST_V 409-L1A	HIST_V	409		L1A	U.S. Foreign Relations since 1945	W2	U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide.	Online Learning	Arranged	Arranged
HIST_V 409-L1B	HIST_V	409		L1B	U.S. Foreign Relations since 1945	W2	U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 409-L1C	HIST_V	409		L1C	U.S. Foreign Relations since 1945	W2	U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
HIST_V 409-L1D	HIST_V	409		L1D	U.S. Foreign Relations since 1945	W2	U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
HIST_V 413-201	HIST_V	413		201	Imagining the Nation: 19th- and 20th-Century Canada	W2	The political and intellectual history of the concept of the nation in French and English Canada, and the different forms of nationalism it inspired from the middle of the nineteenth century to the 1995 Quebec Referendum.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.
HIST_V 414-101	HIST_V	414		101	Constitutions in Canadian History: From Pre-Contact to the Charter of Rights	W1	European precedents, Colonial self-government, Canadian Confederation, and issues such as gay rights, abortion, and First Nations land rights.	In Person Learning	Arranged	Arranged
HIST_V 414-201	HIST_V	414		201	Constitutions in Canadian History: From Pre-Contact to the Charter of Rights	W2	European precedents, Colonial self-government, Canadian Confederation, and issues such as gay rights, abortion, and First Nations land rights.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
HIST_V 418-101	HIST_V	418		101	The 1960s in Global Perspective	W1	The history of the 1960s from a transnational perspective: culture, social change, student activism, and global conflict.	In Person Learning	Arranged	Arranged
HIST_V 418-201	HIST_V	418		201	The 1960s in Global Perspective	W2	The history of the 1960s from a transnational perspective: culture, social change, student activism, and global conflict.	Multi-access Learning	Mon	4:00 p.m. - 5:00 p.m.
HIST_V 418-L01	HIST_V	418		L01	The 1960s in Global Perspective	W1	The history of the 1960s from a transnational perspective: culture, social change, student activism, and global conflict.	In Person Learning	Arranged	Arranged
HIST_V 418-L2A	HIST_V	418		L2A	The 1960s in Global Perspective	W2	The history of the 1960s from a transnational perspective: culture, social change, student activism, and global conflict.	In Person Learning	Mon	5:00 p.m. - 6:00 p.m.
HIST_V 421-B_101	HIST_V	421	B	B_101	Honours Tutorial	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
HIST_V 421-D_201	HIST_V	421	D	D_201	Honours Tutorial	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
HIST_V 425-001	HIST_V	425		001	War and Society	W1-2	Continuity and change in the relations of war and society, the connections between the economy, society, the military, and government in peacetime as well as war; not a course in military history.	Hybrid Learning	Wed	4:00 p.m. - 6:00 p.m.
HIST_V 425-L1A	HIST_V	425		L1A	War and Society	W1-2	Continuity and change in the relations of war and society, the connections between the economy, society, the military, and government in peacetime as well as war; not a course in military history.	In Person Learning	Wed	6:00 p.m. - 7:00 p.m.
HIST_V 425-L1B	HIST_V	425		L1B	War and Society	W1-2	Continuity and change in the relations of war and society, the connections between the economy, society, the military, and government in peacetime as well as war; not a course in military history.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
HIST_V 425-L1C	HIST_V	425		L1C	War and Society	W1-2	Continuity and change in the relations of war and society, the connections between the economy, society, the military, and government in peacetime as well as war; not a course in military history.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
HIST_V 425-L1D	HIST_V	425		L1D	War and Society	W1-2	Continuity and change in the relations of war and society, the connections between the economy, society, the military, and government in peacetime as well as war; not a course in military history.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.

HIST_V 432-001	HIST_V	432	001	International Relations in the Twentieth Century	W1-2	History of international relations from the beginning of the twentieth century to the present. Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.	
HIST_V 432-L1A	HIST_V	432	L1A	International Relations in the Twentieth Century	W1-2	History of international relations from the beginning of the twentieth century to the present. Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.	
HIST_V 432-L1B	HIST_V	432	L1B	International Relations in the Twentieth Century	W1-2	History of international relations from the beginning of the twentieth century to the present. Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.	
HIST_V 432-L1C	HIST_V	432	L1C	International Relations in the Twentieth Century	W1-2	History of international relations from the beginning of the twentieth century to the present. Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.	
HIST_V 432-L1D	HIST_V	432	L1D	International Relations in the Twentieth Century	W1-2	History of international relations from the beginning of the twentieth century to the present. Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.	
HIST_V 432-L1E	HIST_V	432	L1E	International Relations in the Twentieth Century	W1-2	History of international relations from the beginning of the twentieth century to the present. Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.	In Person Learning	Arranged	Arranged	
HIST_V 433-001	HIST_V	433	001	Fourth-Year Honours Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
HIST_V 439-201	HIST_V	439	201	Politics and Culture in Fin-de-Sicle Europe (1890-1914)	W2	Explores relationships between politics, culture, and social change in Europe. Topics include the changing role of intellectuals: literary aestheticism, painting, design and the city, origins of psychology.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
HIST_V 441-101	HIST_V	441	101	History of the Holocaust	W1	A study of the systematic attempt to destroy European Jewry during the Nazi regime, 1933-1945. Topics of special importance include: the motivations and behaviour of the perpetrators; the reactions of the victims; the roles of bystanders.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.	
HIST_V 449-001	HIST_V	449	001	Honours Essay	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
HIST_V 460-201	HIST_V	460	201	Revolution and Resistance in the Third World	W2	Revolutionary movements in the Third World during the second half of the twentieth century; the radicalisation of anticolonial nationalism; the impact of anticolonial radicalism in the developed world; the decline of Marxism as a revolutionary inspiration.	In Person Learning	Arranged	Arranged	
HIST_V 476-101	HIST_V	476	101	Law and Society in the Middle Ages	W1	The history of law in the Middle Ages, including English common law, civil (Roman) law, and canon law, and how changes in both medieval law and society affected the development of each.	In Person Learning	Arranged	Arranged	
HIST_V 484-201	HIST_V	484	201	East Asian Military systems and warfare China	W2	Confucian societies are often thought of as ones in which the brush is mightier than the sword. In fact the military has been a crucial factor in East Asia, and warfare has been the engine which has driven many of the most significant changes in East Asian history. This course will look at the evolution of East Asian military systems, and at the impact of recurrent warfare on East Asia societies.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.	
HIST_V 485-201	HIST_V	485	201	Asian Migrant Communities in Vancouver	W2	This course will examine the history of Asian migration to Vancouver and British Columbia, focusing on the development of local communities and provide a background in historical research methods that will enable the students to conduct research on the history of these communities.	In Person Learning	Arranged	Arranged	
HIST_V 490-M_101	HIST_V	490	M	M_101	Seminar for Majors in History	W1	Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
HIST_V 490-N_101	HIST_V	490	N	N_101	Seminar for Majors in History	W1	Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 490-N_201	HIST_V	490	N	N_201	Seminar for Majors in History	W2	Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
HIST_V 490-T_101	HIST_V	490	T	T_101	Seminar for Majors in History	W1	Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
HIST_V 490-T_201	HIST_V	490	T	T_201	Seminar for Majors in History	W2	Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 490-Y_201	HIST_V	490	Y	Y_201	Seminar for Majors in History	W2	Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
HIST_V 490-Z_201	HIST_V	490	Z	Z_201	Seminar for Majors in History	W2	Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 493-201	HIST_V	493	201	History and Social Relations of Modern Sciences.	W2	Science and society in the 19th to 21st Centuries. [3-0-0]	In Person Learning	Arranged	Arranged	

HIST_V 525-101	HIST_V	525		101	Professional Development for Historians	W1	Offers essential skills for academic and non-academic paths in the historical profession as well as identifying alternative career possibilities for historians. Offers essential skills for academic and non-academic paths in the historical profession as well as identifying alternative career possibilities for historians. Restricted to students in the following programs: PhD in History, MA in History	In Person Learning	Mon	9:30 a.m. - 12:00 p.m.
HIST_V 547-D_101	HIST_V	547	D	D_101	Readings: Special Topics in History	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 547-D_201	HIST_V	547	D	D_201	Readings: Special Topics in History	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 548-D_101	HIST_V	548	D	D_101	Historiography	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:30 p.m.
HIST_V 549-001	HIST_V	549		001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 549-101	HIST_V	549		101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 549-201	HIST_V	549		201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 575-A_201	HIST_V	575	A	A_201	Readings in International and Global History	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:00 p.m.
HIST_V 581-D_101	HIST_V	581	D	D_101	Topics in Science, Technology, and Society	W1	Advanced seminar on a specific theme or themes of interest to both STS and History. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:30 p.m.
HIST_V 585-A_101	HIST_V	585	A	A_101	Topics in Cultural History	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 12:30 p.m.
HIST_V 586-A_101	HIST_V	586	A	A_101	Topics in Intellectual History	W1	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	9:30 a.m. - 12:00 p.m.
HIST_V 589-101	HIST_V	589		101	Readings in Environmental History	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
HIST_V 595-B_201	HIST_V	595	B	B_201	Public History	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 5:30 p.m.
HIST_V 599-101	HIST_V	599		101	M.A. Research Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:30 p.m.
HIST_V 599-201	HIST_V	599		201	M.A. Research Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
HIST_V 649-001	HIST_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
HIST_V 649-101	HIST_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
HIST_V 649-201	HIST_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
HIST_V 699-201	HIST_V	699		201	Ph.D. Research Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 3:30 p.m.
HPB_V 501-201	HPB_V	501		201	Green Building Contemporary Practice	W2	Enhanced building environmental performance and the integration of green building principles, strategies and technologies. This course is not eligible for Credit/D/Fail grading. Equivalency: ARCH574	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
HPB_V 502-101	HPB_V	502		101	Regenerative Development	W1	The relationship between human and natural systems in the context of regenerative design. Provides an understanding of how regenerative approaches differ from green design and how they can offer new insights and directions for design. This course is not eligible for Credit/D/Fail grading. Equivalency: ARCH575	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
HPB_V 503-201	HPB_V	503		201	Whole Building Energy Modelling and Simulation	W2	Modelling energy in a high performance building. Introduction to indoor space requirements. Heat and mass transfer through building envelopes. Climate. Fenestration, daylighting, solar energy. Introduction to major energy models. Modelling project. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.

HPB_V 503-T01	HPB_V	503	T01	Whole Building Energy Modelling and Simulation	W2	Modelling energy in a high performance building. Introduction to indoor space requirements. Heat and mass transfer through building envelopes. Climate. Fenestration, daylighting, solar energy. Introduction to major energy models. Modelling project. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
HPB_V 506-101	HPB_V	506	101	Capstone: New Building Energy Systems Design	W1	Students will take a building under design and work with the designers towards a high performance energy system. The project will be a proposed high performance building with a client, a design team, and energy performance objectives. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.	
HUNU_V 500-001	HUNU_V	500	001	Research Methods in Human Nutrition	W1	Experimental design, methods of survey research, nutritional epidemiology, clinical research, and laboratory animal research. Issues such as animal models, ethics in animal and human research, statistical methods, and preparation of written reports and manuscripts, etc., will be addressed. Required of all M.Sc. and Ph.D. students in Human Nutrition. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.	
HUNU_V 510-001	HUNU_V	510	001	Nutrition Assessment Across the Lifespan	W1	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
HUNU_V 515-001	HUNU_V	515	001	Business & Entrepreneurship in Dietetics	W2	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon	2:30 p.m. - 5:30 p.m.	
HUNU_V 525-002	HUNU_V	525	002	Indigenous Health in Dietetics	W2	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.	
HUNU_V 531-001	HUNU_V	531	001	M.Sc. Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.	
HUNU_V 531-002	HUNU_V	531	002	M.Sc. Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.	
HUNU_V 531-003	HUNU_V	531	003	M.Sc. Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.	
HUNU_V 540-001	HUNU_V	540	001	Advances in Food Theory and Applications	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [1.5-3-0] Corequisite: All of HUNU 545, HUNU 573.	In Person Learning	Wed	10:30 a.m. - 12:00 p.m.	
HUNU_V 540-E01	HUNU_V	540	E01	Advances in Food Theory and Applications	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [1.5-3-0] Corequisite: All of HUNU 545, HUNU 573.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.	
HUNU_V 541-001	HUNU_V	541	001	Food Provision and Management in Dietetics	W1	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of HUNU 540, HUNU 573, HUNU 575.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.	
HUNU_V 541-E01	HUNU_V	541	E01	Food Provision and Management in Dietetics	W1	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of HUNU 540, HUNU 573, HUNU 575.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.	
HUNU_V 545-001	HUNU_V	545	001	Counselling Skills in Dietetics	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: HUNU 510.	In Person Learning	Wed Fri	1:30 p.m. - 3:00 p.m.	
HUNU_V 547-B_001	HUNU_V	547	B	B_001	Directed Studies	W1	In special cases, directed studies on certain aspects of nutrition may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
HUNU_V 547-B_002	HUNU_V	547	B	B_002	Directed Studies	W2	In special cases, directed studies on certain aspects of nutrition may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
HUNU_V 547-B_003	HUNU_V	547	B	B_003	Directed Studies	W1-2	In special cases, directed studies on certain aspects of nutrition may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
HUNU_V 547-E_003	HUNU_V	547	E	E_003	Directed Studies	W1-2	In special cases, directed studies on certain aspects of nutrition may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
HUNU_V 549-001	HUNU_V	549	001	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
HUNU_V 549-002	HUNU_V	549	002	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
HUNU_V 549-003	HUNU_V	549	003	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
HUNU_V 550-001	HUNU_V	550	001	Advances in Human Nutrition	W1	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	

HUNU_V 550-001	HUNU_V	550	001	Advances in Human Nutrition	W1	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	11:30 a.m. - 12:30 p.m.
HUNU_V 560-001	HUNU_V	560	001	Leadership in Dietetics and Health	W1	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
HUNU_V 573-002	HUNU_V	573	002	Population and Public Health Dietetics	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon	1:30 p.m. - 4:30 p.m.
HUNU_V 575-001	HUNU_V	575	001	Nutrition Care I	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of HUNU 500, HUNU 510, HUNU 550.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
HUNU_V 576-001	HUNU_V	576	001	Nutrition Care II	W1	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of HUNU 500, HUNU 575, HUNU 579.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
HUNU_V 576-001	HUNU_V	576	001	Nutrition Care II	W1	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of HUNU 500, HUNU 575, HUNU 579.	In Person Learning	Wed	10:30 a.m. - 11:30 a.m.
HUNU_V 577-002	HUNU_V	577	002	Nutrition Care III	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of HUNU 545, HUNU 573, HUNU 575, HUNU 576, HUNU 579. Corequisite: HUNU 525.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
HUNU_V 577-001	HUNU_V	577	001	Nutrition Care III	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of HUNU 545, HUNU 573, HUNU 575, HUNU 576, HUNU 579. Corequisite: HUNU 525.	In Person Learning	Mon	12:30 p.m. - 1:30 p.m.
HUNU_V 580-002	HUNU_V	580	002	Professional Dietetic Practice II	W2	Restricted to students in the Master of Nutrition and Dietetics graduate program. Pass/fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FNH 380, HUNU 579.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
HUNU_V 581-001	HUNU_V	581	001	Dietetics Practice Education Placement II	W1	Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of HUNU 500, HUNU 579.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
HUNU_V 583-001	HUNU_V	583	001	Dietetics Practice Education Placement IV	W1	Restricted to students in the Master of Nutrition and Dietetics graduate program. Pass/fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: HUNU 582.	Hybrid Learning	Arranged	Arranged
HUNU_V 631-001	HUNU_V	631	001	Ph.D. Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
HUNU_V 631-002	HUNU_V	631	002	Ph.D. Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
HUNU_V 631-003	HUNU_V	631	003	Ph.D. Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
HUNU_V 649-001	HUNU_V	649	001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
HUNU_V 649-002	HUNU_V	649	002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
HUNU_V 649-003	HUNU_V	649	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
IEST_V 500-101	IEST_V	500	101	Pro-Seminar European Studies	W1		In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
IEST_V 505-A_101	IEST_V	505	A	A_101	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
IEST_V 551-B_201	IEST_V	551	B	B_201	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
IGEN_V 201-201	IGEN_V	201	201	Integrated Technical Communication	W2	Written and oral communication in business correspondence, engineering design methods, report preparation, and oral presentations of technical material. Restricted to students in second year of the Integrated Engineering Program. [1-0-2;1-0-2] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150. Equivalency: APSC201	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
IGEN_V 230-001	IGEN_V	230	001	Introduction to Engineering Design	W1-2	Introduction to engineering design methods, problem solving, working individually and in teams, and methods of communication of results. Engineering design projects will be assigned. Restricted to students in the second year of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4-0;1-4-0]	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.

IGEN_V 230-DNU_L0A	IGEN_V	230		DNU_L0A	Introduction to Engineering Design	W1-2	Introduction to engineering design methods, problem solving, working individually and in teams, and methods of communication of results. Engineering design projects will be assigned. Restricted to students in the second year of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4-0;1-4-0]	In Person Learning	Arranged	Arranged
IGEN_V 230-L0A	IGEN_V	230		L0A	Introduction to Engineering Design	W1-2	Introduction to engineering design methods, problem solving, working individually and in teams, and methods of communication of results. Engineering design projects will be assigned. Restricted to students in the second year of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4-0;1-4-0]	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
IGEN_V 330-001	IGEN_V	330		001	Intermediate Engineering Design	W1-2	Intermediate level engineering design projects involving material in the curriculum of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4;1-4]	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
IGEN_V 330-DNU_L0A	IGEN_V	330		DNU_L0A	Intermediate Engineering Design	W2	Intermediate level engineering design projects involving material in the curriculum of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4;1-4]	In Person Learning	Arranged	Arranged
IGEN_V 330-L0A	IGEN_V	330		L0A	Intermediate Engineering Design	W1-2	Intermediate level engineering design projects involving material in the curriculum of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4;1-4]	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
IGEN_V 430-001	IGEN_V	430		001	Advanced Engineering Design Projects	W1-2	Projects involving all material in the curriculum of the Integrated Engineering Program. Students will be expected to propose a project and complete the design and construction of a prototype. Restricted to students in the fourth year of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4-0;1-4-0]	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
IGEN_V 430-L0A	IGEN_V	430		L0A	Advanced Engineering Design Projects	W1-2	Projects involving all material in the curriculum of the Integrated Engineering program. Students will be expected to propose a project and complete the design and construction of a prototype. Restricted to students in the fourth year of the Integrated Engineering program. This course is not eligible for Credit/D/Fail grading. [1-4-0;1-4-0]	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
IGEN_V 450-101	IGEN_V	450		101	Pipeline Engineering	W1	Pipeline materials and material selection; fracture mechanics; manufacturing and processing; welding and corrosion; soil-pipe interactions; surveying and site investigations; slope stability; natural hazards; pipeline loads and response. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
IGEN_V 451-201	IGEN_V	451		201	Pipeline Systems and Infrastructure	W2	Energy infrastructure: pipe flows; equipment and facilities including compressors, pumping stations, coolers, and controls; terminals; pipeline integrity; corrosion control. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
IGEN_V 452-201	IGEN_V	452		201	Pipeline Design	W2	Pipeline and pipeline system design reflecting technical, regulatory, environmental, societal, professional, and economic aspects; pipeline design project. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Tue Thu	2:30 p.m. - 3:30 p.m.
IGEN_V 452-T2A	IGEN_V	452		T2A	Pipeline Design	W2	Pipeline and pipeline system design reflecting technical, regulatory, environmental, societal, professional, and economic aspects; pipeline design project. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
ILS_V 100-101	ILS_V	100		101	Indigenous Views of Landscapes	W1	Introduction to Indigenous people's interpretation of landscape and worldview. Learning from knowledge keepers, the course covers culturally significant places, place names, ceremonies, berry picking, medicines, fishing, and hunting.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 3:30 p.m.
ILS_V 102-101	ILS_V	102		101	Community Engagement: Principles, Practices and Protocols	W1	Introduction to working and professionalism in cross-cultural contexts, with a focus on Indigenous governments and the importance of organizational values, cultural practices and protocols, consensus-based decision-making, principles of engagement, conflict resolution and political dynamics.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
ILS_V 104-101	ILS_V	104		101	Introduction to Governance	W1	Foundations of governance, with a focus on Indigenous governance in Canada. Topics include traditional governance, self-governance and natural resources governance.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
ILS_V 105-201	ILS_V	105		201	Ways of Knowing	W2	Introduction to Indigenous Knowledge, with a focus on Indigenous and Western Knowledge for managing ecosystems and integrating knowledge.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
ILS_V 107-201	ILS_V	107		201	Community: Capacity Development	W2	Foundations for understanding community organization and collective action in communities. Introduction to techniques for building capacity among members/citizens. Prerequisite: ILS 102.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
ILS_V 200-101	ILS_V	200		101	Field Measurements	W1	Introduction to different techniques commonly used in field surveys, including assessments of landforms, soils, vegetation patterns and cultural features. Prerequisite: ILS 100.	In Person Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 3:30 p.m.
ILS_V 301-101	ILS_V	301		101	Indigenous Law	W1	Indigenous legal orders, Canada's constitutional framework, treaties and self-governance. Topics also cover the international context, and the implications of the evolving legal context for land management.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
ILS_V 401-101	ILS_V	401		101	Community Conflict Management	W1	Conflict management focusing on power, rights and interests in Indigenous communities. Topics consensus-based and collaborative approaches.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
INDS_V 501-101	INDS_V	501		101	Instructional Skills Workshop	W1	Introduction to concepts and practice in higher education instruction; emphasis on lesson planning, student participation and instructional aides; includes video-taped practice teacher/peer feedback 28 classroom hours.	In Person Learning	Arranged	Arranged
INDS_V 501-201	INDS_V	501		201	Instructional Skills Workshop	W2	Introduction to concepts and practice in higher education instruction; emphasis on lesson planning, student participation and instructional aides; includes video-taped practice teacher/peer feedback 28 classroom hours.	In Person Learning	Arranged	Arranged
INDS_V 502-E_001	INDS_V	502	E	E_001	Interdisciplinary Studies: Thematic Seminars	W1	Seminars, lectures, and discussions of topics involving several faculties. Contact the Interdisciplinary Studies Program for specific topics (www.isgp.ubc.ca). This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	1:00 p.m. - 4:00 p.m.
INDS_V 502-T_001	INDS_V	502	T	T_001	Interdisciplinary Studies: Thematic Seminars	W2	Seminars, lectures, and discussions of topics involving several faculties. Contact the Interdisciplinary Studies Program for specific topics (www.isgp.ubc.ca). This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.

INDS_V 530-C_003	INDS_V	530	C	C_003	Directed Studies	W1-2	A series of directed readings related to student's area of interdisciplinary studies. This advanced course may be taken upon approval of the Program head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 530-D_001	INDS_V	530	D	D_001	Directed Studies	W1	A series of directed readings related to student's area of interdisciplinary studies. This advanced course may be taken upon approval of the Program head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 549-A_001	INDS_V	549	A	A_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 549-A_002	INDS_V	549	A	A_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 549-A_003	INDS_V	549	A	A_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 549-B_001	INDS_V	549	B	B_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 549-B_002	INDS_V	549	B	B_002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 549-B_003	INDS_V	549	B	B_003	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
INDS_V 649-001	INDS_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
INDS_V 649-002	INDS_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
INDS_V 649-003	INDS_V	649		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
INFO_V 100-001	INFO_V	100		001	(De)coding Information and Why it Matters	W1	Information and data as concepts and aspects of everyday experience. Creation, sharing, authorization, and valuing of information with implications for society. Critical perspectives and practices to engage with data, information, and technologies for personal productivity, scholarly inquiry, and civic engagement.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
INFO_V 200-001	INFO_V	200		001	Foundations of Informatics	W1	Theory, methods, and approaches for the analysis, design, and evaluation of information objects, activities, systems, and infrastructures in contemporary societies.	In Person Learning	Wed	11:00 a.m. - 12:30 p.m.
INFO_V 250-002	INFO_V	250		002	Networks, Crowds, and Communities	W2	Introduces network concepts and methods for exploring social and organizational connectivity for work, socializing, and knowledge production. Examines impact of social media on connections that span space and place; peer production on authority structures; ubiquitous mobile connectivity on daily life.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
INFO_V 300-002	INFO_V	300		002	Information and Data Design	W2	Design of interactive information systems informed by human capabilities and behavior. Application of contemporary information design principles and practices to the conceptualization, creation, and testing of real-world prototypes of information objects and applications. Recommended pre-requisite: INFO 100. Prerequisite: INFO 200.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
INFO_V 301-002	INFO_V	301		002	Digital Cultural Collections	W2	Design, construction and critique of digital collections from a cultural informatics perspective.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
INFO_V 302-001	INFO_V	302		001	Sociotechnical Perspectives for Information Systems Design	W1	Interdisciplinary approaches to theorizing, evaluating, envisioning, and designing information systems as assemblages of society and technology that can favor historically, persistently, or systemically marginalized groups and communities.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
INFO_V 303-001	INFO_V	303		001	Search Engines and Society	W1	Aspects of technical implementation and societal impact of search engines. Explores how Google and other Internet search engines are powerful, global, and non-neutral tools that drive economies and shape our views of the world. Recommended pre-requisite: INFO 200.	In Person Learning	Arranged	Arranged
INFO_V 303-002	INFO_V	303		002	Search Engines and Society	W2	Aspects of technical implementation and societal impact of search engines. Explores how Google and other Internet search engines are powerful, global, and non-neutral tools that drive economies and shape our views of the world. Recommended pre-requisite: INFO 200.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
INFO_V 419-002	INFO_V	419		002	Information Visualization	W2	Basic theory and practice required to visually represent information. Introduces design principles and practical skills to create effective information visualizations. Examines effect of different visual representations on understanding and meaning.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
INFO_V 456-001	INFO_V	456		001	Information Policy and Society	W1	Develops capabilities required to assess the need for information policies in professional contexts, evaluate relevant socio-technical dimensions and envision likely implications for specific communities and practice settings.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
ISCI_V 300-101	ISCI_V	300		101	Interdisciplinary Seminar	W1	Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Intergrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. [0-0-1.5] Prerequisite: Registration in Integrated Sciences Program	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.

ISCI_V 300-201	ISCI_V	300	201	Interdisciplinary Seminar	W2	Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. [0-0-1.5] Prerequisite: Registration in Integrated Sciences Program	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.	
ISCI_V 311-201	ISCI_V	311	201	The Size of Things	W2	Scaling as a general approach to laws governing the geometry, kinematics and dynamics of systems. Dimensional analysis, isometry and allometry applied to topics from Biology, Physics, Earth Science and Economics. Priority to students in the Integrated Sciences Program. [2-0-2] Prerequisite: Third-year standing in the Faculty of Science.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.	
ISCI_V 312-101	ISCI_V	312	101	Symmetry	W1	Recognizing symmetry; point groups in 2D and 3D; plane groups in 2D; space groups in 3D; the role of symmetry in the natural and human world. [3-0-0] Prerequisite: Third-year standing in the Faculty of Science.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
ISCI_V 320-201	ISCI_V	320	201	Research Development Project	W2	Retreat to develop skills in writing scientific research proposals. Emphasis on formulating and testing hypotheses to explain observations. Course location will vary; fee payable prior to retreat. Prerequisite: Third-year standing in the Faculty of Science.	In Person Learning	Mon Tue	9:00 a.m. - 9:00 p.m.	
ISCI_V 350-201	ISCI_V	350	201	Darwinian Medicine	W2	Using the Darwinian theory of natural selection to explore explanations of infectious diseases, allergies, cancer, mental illness, and other human diseases. Priority to students in the Integrated Sciences Program. Please consult the Faculty of Science Credit Exclusion Lists: www.vancouver.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [2-0-2] Prerequisite: Third-year standing in the Faculty of Science. Equivalency: BIOL 350	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.	
ISCI_V 351-201	ISCI_V	351	201	Why the Big Brain? The Evolution of Human Cognition	W2	Evolutionary causes, consequences and constraints of human cognition; enhanced encephalization and mentalizing capabilities throughout the Primate Order, and the emergence of cognitive faculties that define the human species. [3-0-0] Prerequisite: Third-year or higher standing in the Faculty of Science.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
ISCI_V 360-001	ISCI_V	360	001	Systems Approaches to Regional Sustainability	W1	Application of systems science encompassing geological, hydrological, ecological, atmospheric sciences, and energy systems approaches to study regional sustainability. [3-0-0] Prerequisite: Third-year or higher standing in the Faculty of Science.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.	
ISCI_V 361-201	ISCI_V	361	201	Field Course: Systems Approaches to Regional Sustainability	W2	Systems science approaches encompassing geological, hydrological, ecological, atmospheric sciences, and energy systems to investigate a selected region of the world. Course location will vary; fee payable prior to field course.	In Person Learning	Arranged	Arranged	
ISCI_V 398-101	ISCI_V	398	101	Co-operative Work Placement I	W1	Industrial or academic work experience for a minimum of 4 months. Normally taken in Winter Session of third year or Summer Session after third year. Technical report required. Restricted to students in the ISP Co-op program. Prerequisite: One term in ISP.	In Person Learning	Arranged	Arranged	
ISCI_V 398-201	ISCI_V	398	201	Co-operative Work Placement I	W2	Industrial or academic work experience for a minimum of 4 months. Normally taken in Winter Session of third year or Summer Session after third year. Technical report required. Restricted to students in the ISP Co-op program. Prerequisite: One term in ISP.	In Person Learning	Arranged	Arranged	
ISCI_V 399-101	ISCI_V	399	101	Co-operative Work Placement II	W1	Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP. Prerequisite: ISCI 398.	In Person Learning	Arranged	Arranged	
ISCI_V 399-201	ISCI_V	399	201	Co-operative Work Placement II	W2	Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP. Prerequisite: ISCI 398.	In Person Learning	Arranged	Arranged	
ISCI_V 400-201	ISCI_V	400	201	Integrated Sciences Graduating Seminar	W2	Reflection of Integrated Sciences degree experience, development of professional skills, and a showcase of degree integrations to the community. Pass/Fail. [0-0-2.5] Prerequisite: Fourth-year standing in the Integrated Sciences specialization.	Multi-access Learning	Arranged	Arranged	
ISCI_V 433-101	ISCI_V	433	101	Ethical Issues in Science	W1	Theoretical and practical consideration of ethics in the practice, reporting, public impact and accountability of science. [3-0-0] Prerequisite: Third-year standing in any faculty.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
ISCI_V 434-201	ISCI_V	434	201	Non-Animal Methods in Biomedical Science	W2	Interdisciplinary non-animal methods (e.g., organoids, organ-on-a-chip, 3D bioprinting) for research, testing, and education; the regulatory landscape. [3-0-0] Prerequisite: Third-year standing.	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.	
ISCI_V 448-A_101	ISCI_V	448	A	A_101	Directed Studies	W1	Permission of the Director is required.	In Person Learning	Arranged	Arranged
ISCI_V 448-B_101	ISCI_V	448	B	B_101	Directed Studies	W1	Permission of the Director is required.	In Person Learning	Arranged	Arranged
ISCI_V 448-B_201	ISCI_V	448	B	B_201	Directed Studies	W2	Permission of the Director is required.	In Person Learning	Arranged	Arranged
ISCI_V 448-C_102	ISCI_V	448	C	C_102	Directed Studies	W2	Permission of the Director is required.	In Person Learning	Arranged	Arranged
ISCI_V 448-D_001	ISCI_V	448	D	D_001	Directed Studies	W1-2	Permission of the Director is required.	In Person Learning	Arranged	Arranged
ISCI_V 461-201	ISCI_V	461	201	Comparative Field Research Course: Systems Approaches to Regional Sustainability	W2	Systems science approaches encompassing geological, hydrological, ecological, atmospheric sciences, and energy systems to investigate, analyze and research two unique regions of the world. Course location may vary; course location must be different than ISCI 361; fee payable prior to field course. [3-0-0] Prerequisite: ISCI 361.	In Person Learning	Arranged	Arranged	
ISCI_V 498-101	ISCI_V	498	101	Co-operative Work Placement III	W1	Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP. Prerequisite: ISCI 399.	In Person Learning	Arranged	Arranged	

ISCI_V 498-201	ISCI_V	498	201	Co-operative Work Placement III	W2	Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP. Prerequisite: ISCI 399.	In Person Learning	Arranged	Arranged
ISCI_V 499-101	ISCI_V	499	101	Co-Operative Work Placement IV	W1	Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP. Prerequisite: ISCI 498.	In Person Learning	Arranged	Arranged
ISCI_V 499-201	ISCI_V	499	201	Co-Operative Work Placement IV	W2	Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP. Prerequisite: ISCI 498.	In Person Learning	Arranged	Arranged
ITAL_V 101-101	ITAL_V	101	101	Beginners' Italian I	W1	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credit will be granted for only one of ITAL 101 or ITAL 103.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ITAL_V 101-102	ITAL_V	101	102	Beginners' Italian I	W1	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credit will be granted for only one of ITAL 101 or ITAL 103.	Hybrid Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ITAL_V 101-103	ITAL_V	101	103	Beginners' Italian I	W1	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credit will be granted for only one of ITAL 101 or ITAL 103.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ITAL_V 101-104	ITAL_V	101	104	Beginners' Italian I	W1	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credit will be granted for only one of ITAL 101 or ITAL 103.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ITAL_V 101-105	ITAL_V	101	105	Beginners' Italian I	W1	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credit will be granted for only one of ITAL 101 or ITAL 103.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ITAL_V 101-201	ITAL_V	101	201	Beginners' Italian I	W2	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ITAL_V 101-202	ITAL_V	101	202	Beginners' Italian I	W2	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ITAL_V 101-203	ITAL_V	101	203	Beginners' Italian I	W2	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
ITAL_V 101-204	ITAL_V	101	204	Beginners' Italian I	W2	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ITAL_V 101-W01	ITAL_V	101	W01	Beginners' Italian I	W1	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credit will be granted for only one of ITAL 101 or ITAL 103.	In Person Learning	Arranged	Arranged
ITAL_V 101-W02	ITAL_V	101	W02	Beginners' Italian I	W2	Introduction to the essentials of Italian vocabulary, expressions, grammar and cultural life. Focus on listening, reading, speaking and writing skills in everyday situations in the present tense. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102.	In Person Learning	Arranged	Arranged
ITAL_V 102-201	ITAL_V	102	201	Beginners' Italian II	W2	Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ITAL_V 102-202	ITAL_V	102	202	Beginners' Italian II	W2	Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101.	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ITAL_V 102-203	ITAL_V	102	203	Beginners' Italian II	W2	Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
ITAL_V 102-W02	ITAL_V	102	W02	Beginners' Italian II	W2	Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A1 objectives. Credits will be only granted for ITAL 103 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101.	In Person Learning	Arranged	Arranged
ITAL_V 110-101	ITAL_V	110	101	Made in Italy (in English)	W1	Where do Italy's glamour, lifestyle, traditions come from? This course introduces Italy's multifaceted ways of being and the cultural creations of the peninsula in their context. Credit can only be applied for one of ITAL 110 or ITST 110. Equivalency: ITST 110.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ITAL_V 201-101	ITAL_V	201	101	Elementary Italian I	W1	Introduction to complex language structures used to communicate in a variety of situations by using different tenses and modes. Enhanced ability to comprehend, interact and express wishes or feelings in common personal and social contexts. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR Level A1.	Hybrid Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ITAL_V 201-102	ITAL_V	201	102	Elementary Italian I	W1	Introduction to complex language structures used to communicate in a variety of situations by using different tenses and modes. Enhanced ability to comprehend, interact and express wishes or feelings in common personal and social contexts. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR Level A1.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
ITAL_V 201-W01	ITAL_V	201	W01	Elementary Italian I	W1	Introduction to complex language structures used to communicate in a variety of situations by using different tenses and modes. Enhanced ability to comprehend, interact and express wishes or feelings in common personal and social contexts. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR Level A1.	In Person Learning	Arranged	Arranged

ITAL_V 202-201	ITAL_V	202	201	Elementary Italian II	W2	Expansion of fundamental notions and presentation of elaborate structures, present, past and future tenses and different modes. Enriched opportunities to explore Italian culture and develop intercultural skills. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 201.	Hybrid Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ITAL_V 202-202	ITAL_V	202	202	Elementary Italian II	W2	Expansion of fundamental notions and presentation of elaborate structures, present, past and future tenses and different modes. Enriched opportunities to explore Italian culture and develop intercultural skills. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 201.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
ITAL_V 202-W02	ITAL_V	202	W02	Elementary Italian II	W2	Expansion of fundamental notions and presentation of elaborate structures, present, past and future tenses and different modes. Enriched opportunities to explore Italian culture and develop intercultural skills. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 201.	In Person Learning	Arranged	Arranged
ITAL_V 234-101	ITAL_V	234	101	Introduction to Italian Cinema (in English)	W1	A thematic course surveying major classics of Italian cinema, emphasizing their historical, political, social, philosophical and technical contexts. Credit can only be applied for one of ITAL 234 or ITST 234. Equivalency: ITST 234.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
ITAL_V 234-201	ITAL_V	234	201	Introduction to Italian Cinema (in English)	W2	A thematic course surveying major classics of Italian cinema, emphasizing their historical, political, social, philosophical and technical contexts. Credit can only be applied for one of ITAL 234 or ITST 234. Equivalency: ITST 234.	In Person Learning	Arranged	Arranged
ITAL_V 301-101	ITAL_V	301	101	Intermediate Italian I	W1	Advanced grammar structures in context, lexical repertoire and cultural elements to further increase learners' ability to communicate in most situations, including complex conversations. Aligned with CEFR level B1 objectives. Recommended pre-requisites: Second-year standing or higher and one of ITAL 202, ITAL 203, ITAL 206, or successful completion of CEFR level A2.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
ITAL_V 302-201	ITAL_V	302	201	Intermediate Italian II	W2	Expansion of and reflection on the use of complex grammatical structures in context to broaden lexical repertoire. Enhances proficiency through written communication and discussion of relevant cultural topics. Aligned with CEFR level B1 objectives. Recommended pre-requisites: Second-year standing or higher and ITAL 301.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
ITAL_V 345-101	ITAL_V	345	101	Italian Fascism in Interdisciplinary Perspective (in English)	W1	The cultural, literary, philosophical roots of Fascism and its evolution: its policies in literature, sports, cinema, architecture, racial legislation, and colonial adventures. Credit will be granted for only one of ITST 345 or ITAL 345 or RMST 345. Equivalency: ITST 345 or RMST 345.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ITAL_V 378-201	ITAL_V	378	201	Colonial and Postcolonial Italy (in English)	W2	Italian colonialism in the twentieth century and postcolonial legacy in recent decades through media, literary, and cinematic texts. Credit can only be applied for one of ITAL 378 or ITST 378. Recommended pre-requisite: Second-year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
ITAL_V 380-201	ITAL_V	380	201	Italian Food Cultures (in English)	W2	Analyses of Italian or Italian-style foodways and the role they play in articulating larger cultural issues. Credit can only be applied for one of ITAL 380 or ITST 380. Equivalency: ITST 380	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
ITAL_V 401-101	ITAL_V	401	101	Upper-Intermediate Italian I	W1	Continues building fluency, accuracy and proficiency at an autonomous level in spoken and written communication. Emphasis on culturally contextualized grammar structures and vocabulary, critical reading and discussion of a variety of texts. Aligned with CEFR level B2 objectives. Recommended pre-requisites: Second-year standing or higher and ITAL 302 or successful completion of CEFR level B1.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
ITAL_V 403-101	ITAL_V	403	101	Dante Alighieri's Divine Comedy (in English)	W1	A close reading of Dante's masterpiece, along with excerpts from some of his other works: Vita Nuova, Convivio, Monarchia, Epistles. Credit will be granted for only one of ITAL 403 or ITST 413 or RMST 453. Equivalency: ITST 413 or RMST 453.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
ITAL_V 409-201	ITAL_V	409	201	Topics in Modern and Contemporary Italian Literature and Culture (in English)	W2	Italian literature of the 20th century in its intellectual, socio-political and cultural context. Credit will be granted for only one of ITAL 409 or ITST 419 or RMST 459. Equivalency: ITST 419 or RMST 459.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ITAL_V 430-101	ITAL_V	430	101	Italian Cinema in its Cultural Background (in English)	W1	A survey of major films in their intellectual, socio-political, and cultural context. Auteurs may range from De Sica, Rossellini, Pasolini, and Visconti to Bertolucci, Rosi, the Taviani, and Moretti. Credit will be granted for only one of ITAL 430 or ITST 432 or RMST 452. Equivalency: ITST 432 or RMST 452.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
IWME_V 501-101	IWME_V	501	101	Environmental Fluid Mechanics	W1	Governing equations for incompressible, non-rotating flows of variable density; equations of motion for stratified fluids; selective withdrawal; flow over topography; estuarine and exchange flows; hydrodynamic stability. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
IWME_V 502-101	IWME_V	502	101	Engineering Hydrology	W1	Water cycle and role of water in the environment and environmental engineering. Physical and statistical prediction methods for design related to hydrologic systems; precipitation; evaporation; snow hydrology; infiltration and base flow; surface runoff; channel and storage routing; unit hydrograph methods. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
IWME_V 503-101	IWME_V	503	101	Chemical and Biological Industrial Water Treatment Design	W1	Fundamental principles of process design for chemical and biological systems to treat water used in and effluents generated from industrial processes. Industry application examples: mining, oil sands, oil and gas, pulp and paper, agriculture, food and beverage. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
IWME_V 504-201	IWME_V	504	201	Water and Wastewater Management Strategies	W2	Chemical and microbiological quality and contaminations, techniques and analytical procedures for assessing and monitoring chemical and microbiological water quality; water and wastewater quality standards, pollution prevention strategies and policies; risk analysis; asset management. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
IWME_V 505-101	IWME_V	505	101	Water Resources Systems Planning and Management	W1	Art and science of modelling for integrated water resources planning and management; practice of developing and deploying simulation and optimization models to solve water problems; risk informed decision making frameworks and stakeholder processes for analysis of water resources systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
IWME_V 506-101	IWME_V	506	101	Water Infrastructure Capstone	W1	Delivery of major water infrastructure projects from policies to planning and implementation, including schedule, cost, scope, impacts, performance and risk management, indigenous participation and innovative project financing and delivery approaches. Credit will be granted for only one of IWME 506 or CIVL 523. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
JAPN_V 100-001	JAPN_V	100	001	Beginning Japanese IA	W1	An introduction to modern spoken and written Japanese with emphasis on both form (grammar and syntax) and functions (Non-intensive). Not available for credit to students with JAPN 11 and/or JAPN 12. Credit will be granted for only one of JAPN 100 or JAPN 160. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	9:00 a.m. - 10:00 a.m.



JAPN_V 101-022	JAPN_V	101	022	Beginning Japanese IB	W2	Continuation of JAPN 100 (Non-intensive). Not available for credit to students with JAPN 12. Credit will be granted for only one of JAPN 101 or JAPN 160. Recommended pre-requisite: JAPN 100. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	11:00 a.m. - 12:00 p.m.
JAPN_V 101-023	JAPN_V	101	023	Beginning Japanese IB	W2	Continuation of JAPN 100 (Non-intensive). Not available for credit to students with JAPN 12. Credit will be granted for only one of JAPN 101 or JAPN 160. Recommended pre-requisite: JAPN 100. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	1:00 p.m. - 2:00 p.m.
JAPN_V 101-024	JAPN_V	101	024	Beginning Japanese IB	W2	Continuation of JAPN 100 (Non-intensive). Not available for credit to students with JAPN 12. Credit will be granted for only one of JAPN 101 or JAPN 160. Recommended pre-requisite: JAPN 100. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 3:00 p.m.
JAPN_V 101-025	JAPN_V	101	025	Beginning Japanese IB	W2	Continuation of JAPN 100 (Non-intensive). Not available for credit to students with JAPN 12. Credit will be granted for only one of JAPN 101 or JAPN 160. Recommended pre-requisite: JAPN 100. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue Thu	5:00 p.m. - 6:00 p.m.
JAPN_V 101-026	JAPN_V	101	026	Beginning Japanese IB	W2	Continuation of JAPN 100 (Non-intensive). Not available for credit to students with JAPN 12. Credit will be granted for only one of JAPN 101 or JAPN 160. Recommended pre-requisite: JAPN 100. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
JAPN_V 101-027	JAPN_V	101	027	Beginning Japanese IB	W2	Continuation of JAPN 100 (Non-intensive). Not available for credit to students with JAPN 12. Credit will be granted for only one of JAPN 101 or JAPN 160. Recommended pre-requisite: JAPN 100. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	1:00 p.m. - 2:00 p.m.
JAPN_V 101-99C	JAPN_V	101	99C	Beginning Japanese IB	W2	Continuation of JAPN 100 (Non-intensive). Not available for credit to students with JAPN 12. Credit will be granted for only one of JAPN 101 or JAPN 160. Recommended pre-requisite: JAPN 100. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
JAPN_V 160-011	JAPN_V	160	011	Intensive Beginning Japanese I	W1	An introduction to modern spoken and written Japanese with emphasis on both form (grammar and syntax) and functions. Offered in Term 1. Not available for credit to students with JAPN 12. Students are recommended to complete JAPN 160 and 260 in the same year. Credit will be granted for only one of JAPN 160 or JAPN 150 or both JAPN 100, JAPN 101. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 4:00 p.m.
JAPN_V 200-011	JAPN_V	200	011	Beginning Japanese II A	W1	Continuation of JAPN 101 (Non-intensive). Credit will be granted for only one of JAPN 200 or JAPN 102 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	10:00 a.m. - 11:00 a.m.
JAPN_V 200-012	JAPN_V	200	012	Beginning Japanese II A	W1	Continuation of JAPN 101 (Non-intensive). Credit will be granted for only one of JAPN 200 or JAPN 102 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	11:00 a.m. - 12:00 p.m.
JAPN_V 200-013	JAPN_V	200	013	Beginning Japanese II A	W1	Continuation of JAPN 101 (Non-intensive). Credit will be granted for only one of JAPN 200 or JAPN 102 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	1:00 p.m. - 2:00 p.m.
JAPN_V 200-014	JAPN_V	200	014	Beginning Japanese II A	W1	Continuation of JAPN 101 (Non-intensive). Credit will be granted for only one of JAPN 200 or JAPN 102 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 3:00 p.m.
JAPN_V 200-015	JAPN_V	200	015	Beginning Japanese II A	W1	Continuation of JAPN 101 (Non-intensive). Credit will be granted for only one of JAPN 200 or JAPN 102 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 6:00 p.m.
JAPN_V 200-016	JAPN_V	200	016	Beginning Japanese II A	W1	Continuation of JAPN 101 (Non-intensive). Credit will be granted for only one of JAPN 200 or JAPN 102 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
JAPN_V 201-021	JAPN_V	201	021	Beginning Japanese II B	W2	Continuation of JAPN 200 (Non-intensive). Credit will be granted for only one of JAPN 201 or JAPN 103 or JAPN 260. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	10:00 a.m. - 11:00 a.m.
JAPN_V 201-022	JAPN_V	201	022	Beginning Japanese II B	W2	Continuation of JAPN 200 (Non-intensive). Credit will be granted for only one of JAPN 201 or JAPN 103 or JAPN 260. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	11:00 a.m. - 12:00 p.m.
JAPN_V 201-023	JAPN_V	201	023	Beginning Japanese II B	W2	Continuation of JAPN 200 (Non-intensive). Credit will be granted for only one of JAPN 201 or JAPN 103 or JAPN 260. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	1:00 p.m. - 2:00 p.m.
JAPN_V 201-024	JAPN_V	201	024	Beginning Japanese II B	W2	Continuation of JAPN 200 (Non-intensive). Credit will be granted for only one of JAPN 201 or JAPN 103 or JAPN 260. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 3:00 p.m.
JAPN_V 201-025	JAPN_V	201	025	Beginning Japanese II B	W2	Continuation of JAPN 200 (Non-intensive). Credit will be granted for only one of JAPN 201 or JAPN 103 or JAPN 260. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
JAPN_V 260-021	JAPN_V	260	021	Intensive Beginning Japanese II	W2	Continuation of JAPN 160. Offered in Term 2. Students are recommended to complete JAPN 160 and 260 in the same year. Credit will be granted for only one of JAPN 260 or JAPN 151 or both JAPN 102, JAPN 103 or both JAPN 200, JAPN 201. Recommended pre-requisites: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 4:00 p.m.
JAPN_V 320-011	JAPN_V	320	011	Intermediate Japanese I A	W1	Integrated coverage of topics on culture and cross-cultural communication designed to develop competencies in speaking, listening, reading, and writing. It is strongly recommended that JAPN 320 and JAPN 321 be taken in the same year. Credit will be granted for only one of JAPN 320 or JAPN 210 or JAPN 360. Recommended pre-requisites: one of JAPN 103, JAPN 151, JAPN 201, JAPN 260. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	10:00 a.m. - 11:00 a.m.

JAPN_V 320-012	JAPN_V	320	012	Intermediate Japanese I A	W1	Integrated coverage of topics on culture and cross-cultural communication designed to develop competencies in speaking, listening, reading, and writing. It is strongly recommended that JAPN 320 and JAPN 321 be taken in the same year. Credit will be granted for only one of JAPN 320 or JAPN 210 or JAPN 360. Recommended pre-requisites: one of JAPN 103, JAPN 151, JAPN 201, JAPN 260. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	1:00 p.m. - 2:00 p.m.
JAPN_V 321-021	JAPN_V	321	021	Intermediate Japanese I B	W2	Continuation of JAPN 320. It is strongly recommended that JAPN 320 and JAPN 321 be taken in the same year. Credit will be granted for only one of JAPN 321 or JAPN 211 or JAPN 360. Recommended pre-requisites: one of JAPN 210, JAPN 320. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	10:00 a.m. - 11:00 a.m.
JAPN_V 321-022	JAPN_V	321	022	Intermediate Japanese I B	W2	Continuation of JAPN 320. It is strongly recommended that JAPN 320 and JAPN 321 be taken in the same year. Credit will be granted for only one of JAPN 321 or JAPN 211 or JAPN 360. Recommended pre-requisites: one of JAPN 210, JAPN 320. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 3:00 p.m.
JAPN_V 322-011	JAPN_V	322	011	Intermediate Japanese II A	W1	It is strongly recommended that students plan to complete both JAPN 322 and JAPN 323 within one year. Credit will be granted for only one of JAPN 322 or JAPN 212 or JAPN 361. Recommended pre-requisites: one of JAPN 211, JAPN 250, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 3:00 p.m.
JAPN_V 323-021	JAPN_V	323	021	Intermediate Japanese II B	W2	A continuation of JAPN 322. It is strongly recommended that students plan to complete both JAPN 322 and JAPN 323 within one year. Credit will be granted for only one of JAPN 323 and JAPN 212 or JAPN 361. Recommended pre-requisites: one of JAPN 212, JAPN 322. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 3:00 p.m.
JAPN_V 360-011	JAPN_V	360	011	Intensive Intermediate Japanese I	W1	Integrated coverage of topics on culture and cross-cultural communication designed to develop competencies in speaking, listening, reading, and writing. Offered in Term 1. It is strongly recommended that students plan to complete both JAPN 360 and JAPN 361 within one year. Credit will be granted for only one of JAPN 360 or JAPN 212 or both JAPN 210, JAPN 211 or both JAPN 320, JAPN 321. Recommended pre-requisites: one of JAPN 103, JAPN 151, JAPN 201, JAPN 260. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	9:00 a.m. - 11:00 a.m.
JAPN_V 361-021	JAPN_V	361	021	Intensive Intermediate Japanese II	W2	Continuation of JAPN 360. It is strongly recommended that students plan to complete both JAPN 360 and JAPN 361 within one year. Credit will be granted for only one of JAPN 361 or JAPN 251 or both JAPN 212, JAPN 213 or both JAPN 322, JAPN 323. Recommended pre-requisites: one of JAPN 211, JAPN 250, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu Fri	9:00 a.m. - 11:00 a.m.
JAPN_V 400-011	JAPN_V	400	011	Advanced Modern Japanese: Reading and Writing I	W1	Selected texts covering various aspects of Japanese cultural history and contemporary Japanese culture/society; emphasis on grammatical analysis and development of advanced competencies for reading and writing. It is strongly recommended that students plan to complete both JAPN 400 and JAPN 401 within one year. Credit will be granted for only one of JAPN 400 or JAPN 300. Recommended pre-requisites: one of JAPN 213, JAPN 251, JAPN 323, JAPN 361. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
JAPN_V 401-021	JAPN_V	401	021	Advanced Modern Japanese: Reading and Writing II	W2	Continuation of JAPN 301. It is strongly recommended that students plan to complete both JAPN 400 and JAPN 401 within one year. Credit will be granted for only one of JAPN 401 or JAPN 301. Recommended pre-requisites: one of JAPN 300, JAPN 400. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
JAPN_V 402-011	JAPN_V	402	011	Advanced Modern Japanese: Conversation and Composition I	W1	Improvement of speaking and writing skills through readings and discussions on a variety of social and cultural issues; emphasis on appropriate language use in formal situations. It is strongly recommended that students plan to complete both JAPN 402 and JAPN 403 within one year. Credit will be granted for only one of JAPN 402 or JAPN 302. Recommended pre-requisites: one of JAPN 213, JAPN 251, JAPN 323, JAPN 361. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
JAPN_V 422-011	JAPN_V	422	011	Classical Japanese I	W1	The grammar, orthography, and literary style of pre-modern Japanese (bungo). It is strongly recommended that students have 12 credits of JAPN, or equivalent, prior to registration. Credit will be granted for only one of JAPN 422 or JAPN 311.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
JAPN_V 424-021	JAPN_V	424	021	Japanese for Professional Life I	W2	Technical Japanese as it is used in business, commerce, industry, etc. Emphasis on specialized current vocabulary and on the development of communicative competence relevant for workplaces in these fields. Credit will be granted for only one of JAPN 424 or JAPN 314. Recommended pre-requisites: one of JAPN 213, JAPN 251, JAPN 323, JAPN 361.	In Person Learning	Arranged	Arranged
JAPN_V 450-021	JAPN_V	450	021	Advanced Oral Communication I	W2	Oral communication skills appropriate for studying and working in a Japanese-speaking environment either formal or informal. Credit will be granted for only one of JAPN 450 or JAPN 410. Recommended pre-requisites: one of JAPN 300, JAPN 400 and one of JAPN 302, JAPN 402, JAPN 314, JAPN 424. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
JAPN_V 452-011	JAPN_V	452	011	Readings in Modern Japanese Essays	W1	Advanced reading and analysis of scholarly texts in modern Japanese drawn from history, sociology, economics, etc. Advanced conversation, composition, and practice in the use of standard reference tools as preparation for independent research in Japanese. Students are recommended to complete JAPN 403 prior to taking JAPN 452. Credit will be granted for only one of JAPN 452 or JAPN 406. Recommended pre-requisites: one of JAPN 301, JAPN 401. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
JAPN_V 453-021	JAPN_V	453	021	Readings in Modern Japanese Literature	W2	An advanced course in the reading and analysis of literary texts in modern Japanese. Advanced conversation, translation into English and practice in the use of standard reference tools as preparation for advanced research in Japanese. Credit will be granted for only one of JAPN 453 or JAPN 408. Recommended pre-requisites: one of JAPN 301, JAPN 401. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
JAPN_V 459-011	JAPN_V	459	011	Topics in Japanese Language, Culture, and Society	W1	Advanced Japanese language course combined with analysis of various media in literary, journalistic, and popular genres drawn from history, sociology, cultural studies, etc. Practice in the use of standard reference tools prepares students for independent research in Japanese. Students are recommended to complete JAPN 403 prior to JAPN 459. Credit will be granted for only one of JAPN 459 or JAPN 419. Recommended pre-requisites: one of JAPN 301, JAPN 401; and permission from instructor.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
JRNL_V 100-A 227	JRNL_V	100	A	A_227	W2	Development of new media technologies, their applications, and their cultural, political, and social impacts.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
JRNL_V 200-001	JRNL_V	200	001	Journalism Here and Now	W1	Examines the technologies and trends that are changing the profession of journalism. Explore the dynamic, changing, and sometimes problematic world of journalism through critical analysis and creating works of journalism.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.

JRNL_V 200-002	JRNL_V	200	002	Journalism Here and Now	W1	Examines the technologies and trends that are changing the profession of journalism. Explore the dynamic, changing, and sometimes problematic world of journalism through critical analysis and creating works of journalism.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.	
JRNL_V 201-001	JRNL_V	201	001	Introduction to News Audiences	W2	The evolution of news audiences and their relationships with journalists. Examines different approaches to audience engagement and various forms of such engagement.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
JRNL_V 201-002	JRNL_V	201	002	Introduction to News Audiences	W2	The evolution of news audiences and their relationships with journalists. Examines different approaches to audience engagement and various forms of such engagement.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
JRNL_V 320-001	JRNL_V	320	001	Multimedia Journalism	W2	Principles of multimedia storytelling with hands-on journalistic methods in information gathering, fact-checking, and ethical decision making. Prerequisite: One of JRNL 200, JRNL 201.	In Person Learning	Thu	1:30 p.m. - 4:30 p.m.	
JRNL_V 325-001	JRNL_V	325	001	Fundamentals of Community Reporting	W1	Best practices of feature writing in relation to under-represented and marginalized communities with a focus on ethics and social responsibility. Prerequisite: One of JRNL 200, JRNL 201.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	
JRNL_V 400-001	JRNL_V	400	001	Feminist Postcolonial Critique and Journalism in a Digital Age	W2	Feminist postcolonial critique of journalism, and an examination of underlying democratic ideals in a rapidly evolving media landscape.	In Person Learning	Arranged	Arranged	
JRNL_V 420-001	JRNL_V	420	001	Decoding Social Media	W1	Examines the challenges, opportunities and foundational research related to the emergence of social media platforms, services and tools as part of an evolving media ecosystem. Political, social, ethical and legal implications for media organizations, journalists and citizens. Prerequisite: Restricted to fourth-year students. Prior to registration, a minimum of 12-credits of 300-level courses related to media, technology and/or communications recommended.	In Person Learning	Thu	1:30 p.m. - 4:30 p.m.	
JRNL_V 425-001	JRNL_V	425	001	Journalism and Social Change Movements	W2	Critique of the role journalism and news coverage have played in major social change movements in Canada and internationally. How journalism has catalyzed, promoted, misrepresented, or undermined social change through news reporting. Restricted to fourth-year students registered in the Journalism and Social Change minor.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.	
JRNL_V 440-001	JRNL_V	440	001	Imagine Journalism Studio	W2	Journalism startups and media innovation from practice, organizational models, audiences, leadership, theories of change, entrepreneurship and critical perspectives. Prerequisite: Restricted to fourth-year BMS students. Credit cannot be granted for both JRNL 440 and JRNL 540. Equivalency: JRNL 540.	In Person Learning	Arranged	Arranged	
JRNL_V 503-B_001	JRNL_V	503	B	B_001	Journalism Practice and Standards	W1	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
JRNL_V 515-C_001	JRNL_V	515	C	C_001	Integrated Journalism	W1-2	Grammar and syntax of media across platforms; skills and knowledge-based model of learning with an emphasis on digital literacy. Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Tue	9:30 a.m. - 4:30 p.m.
JRNL_V 520-A_001	JRNL_V	520	A	A_001	Special Topics in Contemporary Journalism	W1	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:30 p.m. - 4:30 p.m.
JRNL_V 520-D_001	JRNL_V	520	D	D_001	Special Topics in Contemporary Journalism	W2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
JRNL_V 520-F_001	JRNL_V	520	F	F_001	Special Topics in Contemporary Journalism	W2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
JRNL_V 520-G_001	JRNL_V	520	G	G_001	Special Topics in Contemporary Journalism	W1	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:30 p.m. - 4:30 p.m.
JRNL_V 520-H_001	JRNL_V	520	H	H_001	Special Topics in Contemporary Journalism	W2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 4:30 p.m.
JRNL_V 520-I_001	JRNL_V	520	I	I_001	Special Topics in Contemporary Journalism	W1	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
JRNL_V 520-M_001	JRNL_V	520	M	M_001	Special Topics in Contemporary Journalism	W2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
JRNL_V 520-P_001	JRNL_V	520	P	P_001	Special Topics in Contemporary Journalism	W2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
JRNL_V 520-V_001	JRNL_V	520	V	V_001	Special Topics in Contemporary Journalism	W1	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:30 p.m. - 4:30 p.m.
JRNL_V 520-W_001	JRNL_V	520	W	W_001	Special Topics in Contemporary Journalism	W2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
JRNL_V 520-Z_001	JRNL_V	520	Z	Z_001	Special Topics in Contemporary Journalism	W1	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.

JRNL_V 533-001	JRNL_V	533	001	Media Ethics & Leadership	W1	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	
JRNL_V 534-001	JRNL_V	534	001	Media Law	W2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	
JRNL_V 539-B_001	JRNL_V	539	B	B_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
JRNL_V 540-001	JRNL_V	540	001	Imagine Journalism Studio	W2	Journalism startups and media innovation from practice, organizational models, audiences, leadership, theories of change, entrepreneurship and critical perspectives. Restricted to Master of Journalism students. Credit can only be granted for one of JRNL 440 or JRNL 540. Equivalency: JRNL 440. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	
JRNL_V 548-001	JRNL_V	548	001	Final Research Project	W1-2	Restricted to students in Master of Journalism program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 8:30 a.m.	
JRNL_V 549-A_001	JRNL_V	549	A	A_001	Thesis	W1-2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
JRNL_V 549-A_002	JRNL_V	549	A	A_002	Thesis	W1-2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
JRNL_V 550-001	JRNL_V	550	001	Feature Writing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.	
JRNL_V 555-A_001	JRNL_V	555	A	A_001	International Reporting	W1-2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 10:30 a.m.
JRNL_V 555-A_L01	JRNL_V	555	A	A_L01	International Reporting	W1-2	Restricted to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 110-001	KIN_V	110	001	Human Anatomy	W1	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
KIN_V 110-002	KIN_V	110	002	Human Anatomy	W2	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.	
KIN_V 110-L1A	KIN_V	110	L1A	Human Anatomy	W1	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.	
KIN_V 110-L1B	KIN_V	110	L1B	Human Anatomy	W1	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
KIN_V 110-L1C	KIN_V	110	L1C	Human Anatomy	W1	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
KIN_V 110-L1D	KIN_V	110	L1D	Human Anatomy	W1	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
KIN_V 110-L1E	KIN_V	110	L1E	Human Anatomy	W1	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.	
KIN_V 110-L1F	KIN_V	110	L1F	Human Anatomy	W1	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.	
KIN_V 110-L2A	KIN_V	110	L2A	Human Anatomy	W2	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Tue	5:30 p.m. - 7:30 p.m.	
KIN_V 110-L2B	KIN_V	110	L2B	Human Anatomy	W2	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Thu	6:00 p.m. - 8:00 p.m.	

KIN_V 110-L2C	KIN_V	110	L2C	Human Anatomy	W2	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
KIN_V 110-L2D	KIN_V	110	L2D	Human Anatomy	W2	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
KIN_V 110-L2E	KIN_V	110	L2E	Human Anatomy	W2	Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
KIN_V 120-001	KIN_V	120	001	Health and Exercise Management	W1	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
KIN_V 120-002	KIN_V	120	002	Health and Exercise Management	W2	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
KIN_V 120-L1A	KIN_V	120	L1A	Health and Exercise Management	W1	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
KIN_V 120-L1B	KIN_V	120	L1B	Health and Exercise Management	W1	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
KIN_V 120-L1C	KIN_V	120	L1C	Health and Exercise Management	W1	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Thu	5:00 p.m. - 7:00 p.m.
KIN_V 120-L2A	KIN_V	120	L2A	Health and Exercise Management	W2	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
KIN_V 120-L2B	KIN_V	120	L2B	Health and Exercise Management	W2	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
KIN_V 120-L2C	KIN_V	120	L2C	Health and Exercise Management	W2	Role of physical activity in the maintenance of a healthy life. Application of basic physical fitness and exercise methods, exercise techniques and fitness appraisal. [2-2]	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
KIN_V 131-001	KIN_V	131	001	Systems Physiology I	W1	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
KIN_V 131-002	KIN_V	131	002	Systems Physiology I	W2	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
KIN_V 131-L1A	KIN_V	131	L1A	Systems Physiology I	W1	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
KIN_V 131-L1B	KIN_V	131	L1B	Systems Physiology I	W1	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
KIN_V 131-L1C	KIN_V	131	L1C	Systems Physiology I	W1	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
KIN_V 131-L1D	KIN_V	131	L1D	Systems Physiology I	W1	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
KIN_V 131-L1E	KIN_V	131	L1E	Systems Physiology I	W1	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Tue	6:00 p.m. - 8:00 p.m.
KIN_V 131-L2A	KIN_V	131	L2A	Systems Physiology I	W2	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
KIN_V 131-L2B	KIN_V	131	L2B	Systems Physiology I	W2	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.

KIN_V 131-L2C	KIN_V	131	L2C	Systems Physiology I	W2	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
KIN_V 131-L2D	KIN_V	131	L2D	Systems Physiology I	W2	Structure and function of the skeletal system, muscular system, integumentary system, neuro-hormonal control, and endocrinology. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
KIN_V 132-001	KIN_V	132	001	Systems Physiology II	W1	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
KIN_V 132-002	KIN_V	132	002	Systems Physiology II	W2	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
KIN_V 132-L1A	KIN_V	132	L1A	Systems Physiology II	W1	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon	4:30 p.m. - 6:30 p.m.
KIN_V 132-L1B	KIN_V	132	L1B	Systems Physiology II	W1	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Wed	5:00 p.m. - 7:00 p.m.
KIN_V 132-L1C	KIN_V	132	L1C	Systems Physiology II	W1	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	4:30 p.m. - 6:30 p.m.
KIN_V 132-L1D	KIN_V	132	L1D	Systems Physiology II	W1	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
KIN_V 132-L1E	KIN_V	132	L1E	Systems Physiology II	W1	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
KIN_V 132-L2A	KIN_V	132	L2A	Systems Physiology II	W2	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
KIN_V 132-L2B	KIN_V	132	L2B	Systems Physiology II	W2	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
KIN_V 132-L2C	KIN_V	132	L2C	Systems Physiology II	W2	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
KIN_V 132-L2D	KIN_V	132	L2D	Systems Physiology II	W2	Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> [3-2]	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
KIN_V 140-002	KIN_V	140	002	Lifespan Motor Development	W2	A lifespan approach to motor development that examines underlying factors affecting physical growth, physical activity behaviour, and human motor performance, while highlighting contemporary issues and trends in society. This course is not eligible for Credit/D/Fail grading. [3-0]	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
KIN_V 150-001	KIN_V	150	001	Sport and Exercise Psychology	W1	Psychological theories and research related to sport and exercise behaviour. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
KIN_V 150-901	KIN_V	150	901	Sport and Exercise Psychology	W2	Psychological theories and research related to sport and exercise behaviour. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/bachelor-kinesiology/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
KIN_V 160-001	KIN_V	160	001	Leisure and Sport in Society	W1	Introduction to the political, economic and social basis of leisure and sport; concepts, theories and problems. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
KIN_V 160-002	KIN_V	160	002	Leisure and Sport in Society	W2	Introduction to the political, economic and social basis of leisure and sport; concepts, theories and problems. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.

KIN_V 205-001	KIN_V	205	001	Research Methods in Kinesiology	W1	Critical evaluation of research studies and methods with emphasis on the physical activity context. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Second-year standing.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
KIN_V 205-002	KIN_V	205	002	Research Methods in Kinesiology	W2	Critical evaluation of research studies and methods with emphasis on the physical activity context. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Second-year standing.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
KIN_V 206-001	KIN_V	206	001	Introduction to Statistics in Kinesiology	W1	Basic concepts and principles of descriptive and inferential statistics, and distribution-free statistical techniques. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Second-year standing.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
KIN_V 206-002	KIN_V	206	002	Introduction to Statistics in Kinesiology	W2	Basic concepts and principles of descriptive and inferential statistics, and distribution-free statistical techniques. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Second-year standing.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
KIN_V 211-001	KIN_V	211	001	Human Motor Behaviour I	W1	Processes underlying human movement and learning motor skills and factors influencing acquisition, performance, and movement control. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of KIN 110, KIN 131.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
KIN_V 211-002	KIN_V	211	002	Human Motor Behaviour I	W2	Processes underlying human movement and learning motor skills and factors influencing acquisition, performance, and movement control. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of KIN 110, KIN 131.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
KIN_V 216-001	KIN_V	216	001	Biomechanics I	W1	Application of elementary principles of physics and math to a quantitative analysis of movement. Analysis will also focus on the development of forces within muscles and their effect on initiating and controlling human movement. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: All of KIN 110, KIN 131.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
KIN_V 216-002	KIN_V	216	002	Biomechanics I	W2	Application of elementary principles of physics and math to a quantitative analysis of movement. Analysis will also focus on the development of forces within muscles and their effect on initiating and controlling human movement. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: All of KIN 110, KIN 131.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
KIN_V 232-001	KIN_V	232	001	Nutrition, Physical Activity, and Health	W1	Study of nutrition and its application to physical activity and health. Macro- and micronutrient classification and recommended daily intakes, their digestion, functions in the body and their role in supporting physical activity and health will be discussed. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of KIN 131, KIN 132.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
KIN_V 232-002	KIN_V	232	002	Nutrition, Physical Activity, and Health	W2	Study of nutrition and its application to physical activity and health. Macro- and micronutrient classification and recommended daily intakes, their digestion, functions in the body and their role in supporting physical activity and health will be discussed. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of KIN 131, KIN 132.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
KIN_V 235-001	KIN_V	235	001	Exercise Physiology I	W1	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
KIN_V 235-002	KIN_V	235	002	Exercise Physiology I	W2	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
KIN_V 235-L1A	KIN_V	235	L1A	Exercise Physiology I	W1	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Mon	11:00 a.m. - 1:00 p.m.
KIN_V 235-L1B	KIN_V	235	L1B	Exercise Physiology I	W1	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
KIN_V 235-L1C	KIN_V	235	L1C	Exercise Physiology I	W1	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
KIN_V 235-L1D	KIN_V	235	L1D	Exercise Physiology I	W1	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Tue	6:00 p.m. - 8:00 p.m.
KIN_V 235-L1E	KIN_V	235	L1E	Exercise Physiology I	W1	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
KIN_V 235-L2A	KIN_V	235	L2A	Exercise Physiology I	W2	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
KIN_V 235-L2B	KIN_V	235	L2B	Exercise Physiology I	W2	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
KIN_V 235-L2C	KIN_V	235	L2C	Exercise Physiology I	W2	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
KIN_V 235-L2D	KIN_V	235	L2D	Exercise Physiology I	W2	Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.

KIN_V 262-001	KIN_V	262	001	Health Policy and Society	W1	Health policy and the social context in relation to active health. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: KIN 160.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
KIN_V 262-002	KIN_V	262	002	Health Policy and Society	W2	Health policy and the social context in relation to active health. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: KIN 160.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
KIN_V 300-001	KIN_V	300	001	Human Athletic Performance	W1	An exploration of human movement and related issues pertaining to sports and athletic performance for non-Kinesiology students. Not for credit in the B.Kin. Program. [3-0] Prerequisite: Second-year standing.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
KIN_V 311-001	KIN_V	311	001	Sensorimotor Control of Human Movement	W1	Processes and mechanisms involved in the sensory, perceptual, and cognitive contributions to human movements. [3-0] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
KIN_V 313-001	KIN_V	313	001	Neuromuscular Integration of Human Movement	W1	The neurophysiological and functional neuroanatomical processes involved in the sensory and motor control of movement, posture and balance in the human. Peripheral and central sensorimotor structures, and neurological diseases that affect human movement and balance control will be discussed. [3-0] Prerequisite: All of KIN 110, KIN 131.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
KIN_V 316-001	KIN_V	316	001	Biomechanical Properties of Tissues	W2	Mechanics of muscular contraction and how the mechanical properties of the muscle, ligaments, tendons, and bone work synergistically. [3-0] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
KIN_V 320-001	KIN_V	320	001	Exercise Testing and Prescription	W1	Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport. [2-2] Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
KIN_V 320-901	KIN_V	320	901	Exercise Testing and Prescription	W2	Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport. [2-2] Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
KIN_V 320-L1A	KIN_V	320	L1A	Exercise Testing and Prescription	W1	Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport. [2-2] Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.	In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
KIN_V 320-L1B	KIN_V	320	L1B	Exercise Testing and Prescription	W1	Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport. [2-2] Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.
KIN_V 320-L1C	KIN_V	320	L1C	Exercise Testing and Prescription	W1	Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport. [2-2] Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
KIN_V 320-L2A	KIN_V	320	L2A	Exercise Testing and Prescription	W2	Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport. [2-2] Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.	In Person Learning	Wed	5:00 p.m. - 7:00 p.m.
KIN_V 335-001	KIN_V	335	001	Advanced Applications of Exercise Physiology	W1	Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
KIN_V 335-L1A	KIN_V	335	L1A	Advanced Applications of Exercise Physiology	W1	Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
KIN_V 335-L1B	KIN_V	335	L1B	Advanced Applications of Exercise Physiology	W1	Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
KIN_V 335-L1C	KIN_V	335	L1C	Advanced Applications of Exercise Physiology	W1	Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
KIN_V 335-L1D	KIN_V	335	L1D	Advanced Applications of Exercise Physiology	W1	Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
KIN_V 335-L1E	KIN_V	335	L1E	Advanced Applications of Exercise Physiology	W1	Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
KIN_V 335-L1F	KIN_V	335	L1F	Advanced Applications of Exercise Physiology	W1	Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise. [2-0-2] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
KIN_V 341-002	KIN_V	341	002	Instructional Strategies for Including Persons with Disabilities in Physical Activity	W2	Examining curricular and instructional adaptations for accommodating participants with disabilities in inclusive physical activity environments. [2-0-2] Prerequisite: One of KIN 140, KIN 284, and Third-year standing.	In Person Learning	Arranged	Arranged
KIN_V 341-L2A	KIN_V	341	L2A	Instructional Strategies for Including Persons with Disabilities in Physical Activity	W2	Examining curricular and instructional adaptations for accommodating participants with disabilities in inclusive physical activity environments. [2-0-2] Prerequisite: One of KIN 140, KIN 284, and Third-year standing.	In Person Learning	Arranged	Arranged
KIN_V 342-001	KIN_V	342	001	Creating Effective, Developmentally Appropriate, Physical Activity Learning Environments	W1	The pedagogical skills and knowledge required to design, and implement, developmentally appropriate physical activities learning environments in a variety of settings. [2-2-0] Prerequisite: One of KIN 140.	In Person Learning	Arranged	Arranged

KIN_V 342-L1A	KIN_V	342		L1A	Creating Effective, Developmentally Appropriate, Physical Activity Learning Environments	W1	The pedagogical skills and knowledge required to design, and implement, developmentally appropriate physical activities learning environments in a variety of settings. [2-2-0] Prerequisite: One of KIN 140.	In Person Learning	Arranged	Arranged
KIN_V 342-L1B	KIN_V	342		L1B	Creating Effective, Developmentally Appropriate, Physical Activity Learning Environments	W1	The pedagogical skills and knowledge required to design, and implement, developmentally appropriate physical activities learning environments in a variety of settings. [2-2-0] Prerequisite: One of KIN 140.	In Person Learning	Arranged	Arranged
KIN_V 344-001	KIN_V	344		001	Leisure Services for Persons with a Disability	W1	Policy issues relating to leisure opportunities for persons with disabilities. [3-0] Prerequisite: All of KIN 160, KIN 262.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.
KIN_V 345-001	KIN_V	345		001	Foundations of Coaching	W1	Methods of athletic conditioning, planning the program, psychology of training and coaching, athletic evaluation. [3-0] Prerequisite: KIN 150.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
KIN_V 351-002	KIN_V	351		002	Physical Activity and Disability	W2	Physical activity counselling, education programming principles, exercise considerations, and strategies for promoting inclusive physical activity for people with disabilities. [2-0-2] Prerequisite: KIN 150 and Third-year standing.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
KIN_V 351-L2A	KIN_V	351		L2A	Physical Activity and Disability	W2	Physical activity counselling, education programming principles, exercise considerations, and strategies for promoting inclusive physical activity for people with disabilities. [2-0-2] Prerequisite: KIN 150 and Third-year standing.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
KIN_V 353-A_001	KIN_V	353	A	A_001	Current Topics in Exercise and Health Psychology	W1	Exploring concepts, principles, and theories as they relate to the practice of promoting and supporting recommended physical activity for individuals and population groups. Particular attention will be directed at contemporary issues, controversies, evidence informed initiatives, and innovative new approaches. [3-0-0] Prerequisite: KIN 150 and third-year standing.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
KIN_V 355-001	KIN_V	355		001	Movement Experiences for Young Children	W1	The design and implementation of movement experiences for children in early childhood years. [3-0] Prerequisite: All of KIN 110, KIN 131, KIN 140, KIN 150, KIN 160, KIN 211.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
KIN_V 360-001	KIN_V	360		001	Sport, Peace, and Conflict	W2	Relationships that sport and leisure have with peace, conflict, and social inequality in Canada and internationally. [3-0] Prerequisite: KIN 160.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
KIN_V 363-001	KIN_V	363		001	Leisure, Sport and Popular Culture	W1	Selected aspects of leisure and sport examined in relation to modern social structures and cultures. [3-0-0] Prerequisite: KIN 160.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
KIN_V 368-001	KIN_V	368		001	Indigenous Sport and Physical Culture in Settler Canada	W1	Historical and contemporary issues in Canada that shape Indigenous sport and physical activity, health programs, and policies. [3-0] Prerequisite: All of KIN 160, KIN 262.	In Person Learning	Arranged	Arranged
KIN_V 368-002	KIN_V	368		002	Indigenous Sport and Physical Culture in Settler Canada	W2	Historical and contemporary issues in Canada that shape Indigenous sport and physical activity, health programs, and policies. [3-0] Prerequisite: All of KIN 160, KIN 262.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
KIN_V 411-001	KIN_V	411		001	Neuroanatomy of Human Movement	W2	Neuroanatomy of human motion in healthy and clinical populations. [3-0] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
KIN_V 413-001	KIN_V	413		001	Sensori-Motor Control of Human Balance	W1	Examining the sensory, motor, and biomechanical factors that contribute to human balance control during quiet standing and postural reactions to internal and external perturbations. Emphasis on understanding the characteristics of healthy balance control and changes associated with age and disease. [3-0] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216, and third-year standing.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
KIN_V 415-001	KIN_V	415		001	Sensori-motor Neuroplasticity in Movement and Exercise	W1	Concepts in neuroplasticity related to sensori-motor control of movement and exercise. The focus will be on plasticity (both adaptive and maladaptive) that arises because of either training or injury/non-use as it relates to movement control and exercise. [3-0-0] Prerequisite: All of KIN 110, KIN 131, and third-year standing.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
KIN_V 419-001	KIN_V	419		001	Laboratory Investigations in Neuromechanical Kinesiology	W2	Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [1-2] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
KIN_V 419-L1A	KIN_V	419		L1A	Laboratory Investigations in Neuromechanical Kinesiology	W2	Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [1-2] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Arranged	Arranged
KIN_V 419-L1B	KIN_V	419		L1B	Laboratory Investigations in Neuromechanical Kinesiology	W2	Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [1-2] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
KIN_V 419-L1C	KIN_V	419		L1C	Laboratory Investigations in Neuromechanical Kinesiology	W2	Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [1-2] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
KIN_V 419-L1D	KIN_V	419		L1D	Laboratory Investigations in Neuromechanical Kinesiology	W2	Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [1-2] Prerequisite: All of KIN 110, KIN 131, KIN 211, KIN 216.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
KIN_V 420-001	KIN_V	420		001	Prevention of Sports Injuries	W1	Training and safety strategies for the prevention of injuries to the musculoskeletal system and sense organs. [3-0] Prerequisite: KIN 110.	Online Learning	Mon	5:00 p.m. - 8:00 p.m.
KIN_V 420-002	KIN_V	420		002	Prevention of Sports Injuries	W2	Training and safety strategies for the prevention of injuries to the musculoskeletal system and sense organs. [3-0] Prerequisite: KIN 110.	Online Learning	Tue	5:00 p.m. - 8:00 p.m.

KIN_V 432-001	KIN_V	432	001	Sport Nutrition	W1	Sport nutrition guidelines, physiological mechanisms of fuel use in the body, nutritional strategies to support weight change, hydration, and ergogenic aids the needs of special athlete populations. [3-0] Prerequisite: All of KIN 131, KIN 132, KIN 232.	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.	
KIN_V 434-002	KIN_V	434	002	Exercise, Nutrition, and Metabolism	W2	Exploring the physiological and biochemical changes that occur in skeletal muscle, adipose tissue, and liver following exercise. Interactions between exercise, nutrition, and commonly prescribed medications used for the treatment of diabetes and cardiovascular disease will also be examined. [3-0] Prerequisite: All of KIN 232, KIN 235, and third-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
KIN_V 435-001	KIN_V	435	001	Pulmonary Physiology of Exercise	W1	Operation of the lungs, chest wall, and ventilatory control mechanisms during dynamic whole-body exercise. [3-0] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235, KIN 335.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
KIN_V 438-001	KIN_V	438	001	Skeletal Muscle Physiology: Molecular Adaptions to Training, Disuse and Aging	W2	Cellular and molecular mechanisms of muscle adaptability to aerobic and resistance training, inactive and aging: signaling cascades controlling hypertrophy and atrophy, satellite cell contribution to muscle repair, and mitochondrial/ribosomal biogenesis. BIOL 112 or similar recommended. [3-0-1] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235, KIN 335.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
KIN_V 442-901	KIN_V	442	901	Planning Physical Education, Sport and Exercise Programs	W2	Processes, techniques and considerations in the planning, implementation and evaluation of physical education, sport and exercise programs in both public and private agencies. [3-0]	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
KIN_V 444-002	KIN_V	444	002	Exploring Alternative Methods for Teaching Games and Sports	W2	Examination of innovative, developmentally appropriate, conceptual and tactical approaches to team game instruction. [2-2-0] Prerequisite: One of KIN 140.	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.	
KIN_V 444-L2A	KIN_V	444	L2A	Exploring Alternative Methods for Teaching Games and Sports	W2	Examination of innovative, developmentally appropriate, conceptual and tactical approaches to team game instruction. [2-2-0] Prerequisite: One of KIN 140.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
KIN_V 450-001	KIN_V	450	001	Inclusive Approaches to Sport Psychology	W1	Examination of the psychological and behavioural processes of athletes from a social justice perspective. The focus will be on the role of social structures, sociocultural norms, power relations, and social identities in shaping athletes' perceptions and lived experiences in sport. [3-0-0] Prerequisite: All of KIN 150, KIN 160, and third-year standing.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.	
KIN_V 453-001	KIN_V	453	001	Understanding and Changing Physical Activity Behaviour	W2	Examining the influence of psychological factors across different settings and populations, with a particular focus on interventions aimed at enhancing mental health. Understanding psychology can be used to design effective interventions at the individual and community level. [3-0-0] Prerequisite: KIN 150.	In Person Learning	Mon Fri	3:00 p.m. - 4:30 p.m.	
KIN_V 459-001	KIN_V	459	001	Psychobiology of Physical Activity	W2	Exploration of the role that physical activity and exercise play in modifying the neurobiological, autonomic, endocrine, and inflammatory responses to stress. [3-0] Prerequisite: All of KIN 150, KIN 205, KIN 206.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.	
KIN_V 464-001	KIN_V	464	001	Health Promotion and Physical Activity	W2	Current perspectives on health promotion and health education; design and implementation of health promotion strategies in a variety of arenas, particularly health promotion/education strategies aimed at encouraging physical activity. [3-0] Prerequisite: All of KIN 150, KIN 160, KIN 205, KIN 262.	In Person Learning	Arranged	Arranged	
KIN_V 465-001	KIN_V	465	001	Interculturalism, Health and Physical Activity	W1	Examination of multiculturalism and interculturalism in the delivery of community-based physical activities for diverse populations; connections between physical activity and health in different cultural contexts. Community service learning and participation in culturally unfamiliar physical activities are core elements. Prerequisite: All of KIN 160, KIN 262.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
KIN_V 465-002	KIN_V	465	002	Interculturalism, Health and Physical Activity	W2	Examination of multiculturalism and interculturalism in the delivery of community-based physical activities for diverse populations; connections between physical activity and health in different cultural contexts. Community service learning and participation in culturally unfamiliar physical activities are core elements. Prerequisite: All of KIN 160, KIN 262.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
KIN_V 468-002	KIN_V	468	002	Indigenous Health and Wellness	W2	The complex social, cultural, historical, and economic factors that shape health and wellness within Indigenous communities will be explored through extensive blended learning and experiential learning opportunities. [3-0-0] Prerequisite: All of KIN 160, KIN 262.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
KIN_V 482-A_001	KIN_V	482	A	A_001	Advanced Seminar in Neuromechanics	W1	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
KIN_V 482-B_001	KIN_V	482	B	B_001	Advanced Seminar in Neuromechanics	W1	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Tue	4:30 p.m. - 6:30 p.m.
KIN_V 482-C_001	KIN_V	482	C	C_001	Advanced Seminar in Neuromechanics	W1	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
KIN_V 482-D_002	KIN_V	482	D	D_002	Advanced Seminar in Neuromechanics	W2	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
KIN_V 482-E_001	KIN_V	482	E	E_001	Advanced Seminar in Neuromechanics	W1	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
KIN_V 482-F_002	KIN_V	482	F	F_002	Advanced Seminar in Neuromechanics	W2	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
KIN_V 482-G_002	KIN_V	482	G	G_002	Advanced Seminar in Neuromechanics	W2	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Tue	4:30 p.m. - 6:30 p.m.

KIN_V 482-K_001	KIN_V	482	K	K_001	Advanced Seminar in Neuromechanics	W1-2	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Arranged	Arranged
KIN_V 482-R_001	KIN_V	482	R	R_001	Advanced Seminar in Neuromechanics	W1	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
KIN_V 482-S_001	KIN_V	482	S	S_001	Advanced Seminar in Neuromechanics	W1	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
KIN_V 482-T_002	KIN_V	482	T	T_002	Advanced Seminar in Neuromechanics	W2	Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human motion and its response to the physical environment. [3-0] Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 419. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
KIN_V 483-A_001	KIN_V	483	A	A_001	Advanced Seminar in Systems Biology, Exercise and Health	W2	Topics examine the roles of physical activity and fitness on physiological systems and underlying cellular and metabolic mechanisms. [3-0] Prerequisite: Two of KIN 320, KIN 321, KIN 322, KIN 335, KIN 420, KIN 424, KIN 432, KIN 435, KIN 438. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
KIN_V 483-D_001	KIN_V	483	D	D_001	Advanced Seminar in Systems Biology, Exercise and Health	W1	Topics examine the roles of physical activity and fitness on physiological systems and underlying cellular and metabolic mechanisms. [3-0] Prerequisite: Two of KIN 320, KIN 321, KIN 322, KIN 335, KIN 420, KIN 424, KIN 432, KIN 435, KIN 438. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Arranged	Arranged
KIN_V 483-E_002	KIN_V	483	E	E_002	Advanced Seminar in Systems Biology, Exercise and Health	W2	Topics examine the roles of physical activity and fitness on physiological systems and underlying cellular and metabolic mechanisms. [3-0] Prerequisite: Two of KIN 320, KIN 321, KIN 322, KIN 335, KIN 420, KIN 424, KIN 432, KIN 435, KIN 438. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Arranged	Arranged
KIN_V 483-M_001	KIN_V	483	M	M_001	Advanced Seminar in Systems Biology, Exercise and Health	W1	Topics examine the roles of physical activity and fitness on physiological systems and underlying cellular and metabolic mechanisms. [3-0] Prerequisite: Two of KIN 320, KIN 321, KIN 322, KIN 335, KIN 420, KIN 424, KIN 432, KIN 435, KIN 438. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
KIN_V 484-A_002	KIN_V	484	A	A_002	Advanced Seminar in Indigenous Sport, Physical Activity and Health	W2	Topics explore the relationship between Indigenous physical cultures, physical activity, health and wellbeing. [3-0] Prerequisite: Restricted to students in the BKIN program with third- or fourth-year standing.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
KIN_V 484-B_001	KIN_V	484	B	B_001	Advanced Seminar in Indigenous Sport, Physical Activity and Health	W1	Topics explore the relationship between Indigenous physical cultures, physical activity, health and wellbeing. [3-0] Prerequisite: Restricted to students in the BKIN program with third- or fourth-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
KIN_V 486-A_001	KIN_V	486	A	A_001	Advanced Seminar in Psychology of Movement	W1	Topics examines the application of psychology to understanding and supporting healthy sport, physical activity, and health behaviors. [3-0] Prerequisite: Restricted to students in the BKIN program with third- or fourth-year standing.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
KIN_V 486-B_001	KIN_V	486	B	B_001	Advanced Seminar in Psychology of Movement	W1	Topics examines the application of psychology to understanding and supporting healthy sport, physical activity, and health behaviors. [3-0] Prerequisite: Restricted to students in the BKIN program with third- or fourth-year standing.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
KIN_V 486-C_002	KIN_V	486	C	C_002	Advanced Seminar in Psychology of Movement	W2	Topics examines the application of psychology to understanding and supporting healthy sport, physical activity, and health behaviors. [3-0] Prerequisite: Restricted to students in the BKIN program with third- or fourth-year standing.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
KIN_V 487-B_001	KIN_V	487	B	B_001	Advanced Seminar in Sociocultural Studies	W2	Topics explore the social, cultural and global context of sport, exercise, physical activity, health, and the body. [3-0] Prerequisite: Two of KIN 360, KIN 363, KIN 364, KIN 368, KIN 460, KIN 464, KIN 465, KIN 466, KIN 467. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
KIN_V 487-D_002	KIN_V	487	D	D_002	Advanced Seminar in Sociocultural Studies	W2	Topics explore the social, cultural and global context of sport, exercise, physical activity, health, and the body. [3-0] Prerequisite: Two of KIN 360, KIN 363, KIN 364, KIN 368, KIN 460, KIN 464, KIN 465, KIN 466, KIN 467. Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
KIN_V 488-B_001	KIN_V	488	B	B_001	Advanced Seminar in Interdisciplinary Research in Kinesiology	W1	Topics will be approached from multiple perspectives in a course designed to explore the interdisciplinarity of the field of kinesiology. [3-0] Prerequisite: Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Wed	10:30 a.m. - 12:00 p.m.
KIN_V 488-C_002	KIN_V	488	C	C_002	Advanced Seminar in Interdisciplinary Research in Kinesiology	W2	Topics will be approached from multiple perspectives in a course designed to explore the interdisciplinarity of the field of kinesiology. [3-0] Prerequisite: Restricted to students in the BKIN program with fourth-year standing.	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.
KIN_V 490-A_001	KIN_V	490	A	A_001	Directed Studies in Kinesiology	W1	Opportunity for students to conduct an independent study in a subject area of interest to them, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.	In Person Learning	Arranged	Arranged
KIN_V 490-B_002	KIN_V	490	B	B_002	Directed Studies in Kinesiology	W2	Opportunity for students to conduct an independent study in a subject area of interest to them, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.	In Person Learning	Arranged	Arranged
KIN_V 492-001	KIN_V	492		001	Undergraduate Research Experience in Kinesiology	W1-2	Opportunity for independent study that includes original data collection, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.	In Person Learning	Arranged	Arranged
KIN_V 500-C_001	KIN_V	500	C	C_001	Special Topics in Kinesiology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 500-H_001	KIN_V	500	H	H_001	Special Topics in Kinesiology	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	5:00 p.m. - 8:00 p.m.
KIN_V 500-K_001	KIN_V	500	K	K_001	Special Topics in Kinesiology	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	2:00 p.m. - 5:00 p.m.

KIN_V 500-L_001	KIN_V	500	L	L_001	Special Topics in Kinesiology	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	10:00 a.m. - 11:30 a.m.
KIN_V 501-001	KIN_V	501		001	Computational Methods for Data Acquisition and Signal Processing in Kinesiology	W1	Hands-on laboratory course with an emphasis on developing critical computational research skills for the acquisition, processing and presentation of data related to human movements. Recommended prerequisite: Undergraduate degree in Kinesiology (or related field) including neuromechanical science courses. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:30 a.m. - 11:30 a.m.
KIN_V 517-001	KIN_V	517		001	Business of High Performance Sport in Canada	W2	Canada's sport system, its governance and stakeholders; financial management for high performance sport; communications, marketing, and sponsorship of high performance sport. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
KIN_V 517-WB1	KIN_V	517		WB1	Business of High Performance Sport in Canada	W2	Canada's sport system, its governance and stakeholders; financial management for high performance sport; communications, marketing, and sponsorship of high performance sport. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 517-WB6	KIN_V	517		WB6	Business of High Performance Sport in Canada	W2	Canada's sport system, its governance and stakeholders; financial management for high performance sport; communications, marketing, and sponsorship of high performance sport. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 530-A_001	KIN_V	530	A	A_001	Directed Studies	W1	Topics selected by the student, with the approval of the Graduate Advisor, can be studied under the supervision of a member of the faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 530-A_002	KIN_V	530	A	A_002	Directed Studies	W2	Topics selected by the student, with the approval of the Graduate Advisor, can be studied under the supervision of a member of the faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 530-B_001	KIN_V	530	B	B_001	Directed Studies	W1	Topics selected by the student, with the approval of the Graduate Advisor, can be studied under the supervision of a member of the faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 530-B_002	KIN_V	530	B	B_002	Directed Studies	W2	Topics selected by the student, with the approval of the Graduate Advisor, can be studied under the supervision of a member of the faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 562-001	KIN_V	562		001	Bioenergetics of Physical Activity	W1	Basic energy systems of the human body; primarily concentrating on the bioenergetics of the skeletal muscle cell, recovery from muscular work, substrate utilization, muscle fiber types, strength, endurance and the physiological assessment of maximal performance. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	1:00 p.m. - 4:00 p.m.
KIN_V 564-001	KIN_V	564		001	Psycho-Social Aspects of Physical Activity	W1	Selected psycho-social considerations in sport: initial and continuing involvement in the competitive sport environment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
KIN_V 568-001	KIN_V	568		001	Seminar in Human Sensorimotor Control	W2	Reports and discussions of research literature concerning theories and findings in human sensorimotor control. Emphasis is given to understanding the basic mechanisms underlying sensorimotor control, utilizing frameworks drawn from motor behaviour, cognitive neuroscience, and neurophysiology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:30 p.m. - 3:30 p.m.
KIN_V 570-001	KIN_V	570		001	Research Methods in Kinesiology	W2	Research methods applied to the study of sport and physical activity, the nature of scientific inquiry, the design of experiments, the survey as a research medium, the historical and philosophical methods of inquiry, the writing of the research report. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
KIN_V 571-001	KIN_V	571		001	Qualitative Methods in Sport, Leisure, and Health Studies	W2	Theoretical, methodological, and ethical debates about and approaches to qualitative methods; issues in and approaches to qualitative inquiry. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
KIN_V 572-001	KIN_V	572		001	Research Methods for Sport & Health Sciences	W1	Interpretation and evaluation of research methods and scientific findings related to coaching sciences and exercise and health-related professions. This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	5:00 p.m. - 6:30 p.m.
KIN_V 575-001	KIN_V	575		001	Principles of Applied Sports Analytics	W1	Technical and applied knowledge in data science and analytics related to high performance sports. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
KIN_V 585-001	KIN_V	585		001	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
KIN_V 585-WB1	KIN_V	585		WB1	Performance Planning	W2	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
KIN_V 585-WB2	KIN_V	585		WB2	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 585-WB3	KIN_V	585		WB3	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 585-WB4	KIN_V	585		WB4	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

KIN_V 585-WB5	KIN_V	585	WB5	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 585-WB6	KIN_V	585	WB6	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 585-WB7	KIN_V	585	WB7	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 585-WB8	KIN_V	585	WB8	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 585-WB9	KIN_V	585	WB9	Performance Planning	W1	Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-001	KIN_V	586	001	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
KIN_V 586-W02	KIN_V	586	W02	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-WB1	KIN_V	586	WB1	Coaching Effectiveness	W1	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
KIN_V 586-WB3	KIN_V	586	WB3	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-WB4	KIN_V	586	WB4	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-WB5	KIN_V	586	WB5	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-WB6	KIN_V	586	WB6	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-WB7	KIN_V	586	WB7	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-WB8	KIN_V	586	WB8	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 586-WB9	KIN_V	586	WB9	Coaching Effectiveness	W2	Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 595-001	KIN_V	595	001	Master's Graduating Paper	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 595-002	KIN_V	595	002	Master's Graduating Paper	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 596-001	KIN_V	596	001	High Performance Sport Inquiry	W1	Blended learning approach in a problem-based setting. Students support their own research interests within the high performance sport arena. This course is not eligible for Credit/D/Fail grading. Prerequisite: KIN 572.	Online Learning	Arranged	Arranged
KIN_V 596-WB6	KIN_V	596	WB6	High Performance Sport Inquiry	W1-2	Blended learning approach in a problem-based setting. Students support their own research interests within the high performance sport arena. This course is not eligible for Credit/D/Fail grading. Prerequisite: KIN 572.	Online Learning	Arranged	Arranged
KIN_V 598-001	KIN_V	598	001	Directed Field Studies in Kinesiology	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 598-002	KIN_V	598	002	Directed Field Studies in Kinesiology	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

KIN_V 598-WB1	KIN_V	598	WB1	Directed Field Studies in Kinesiology	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
KIN_V 598-WB2	KIN_V	598	WB2	Directed Field Studies in Kinesiology	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 598-WB3	KIN_V	598	WB3	Directed Field Studies in Kinesiology	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
KIN_V 599-A_001	KIN_V	599	A_001	Master's Thesis	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
KIN_V 599-A_003	KIN_V	599	A_003	Master's Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
KIN_V 699-001	KIN_V	699	001	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged
KIN_V 699-002	KIN_V	699	002	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged
KIN_V 699-003	KIN_V	699	003	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
KORN_V 102-001	KORN_V	102	001	Basic Korean	W1-2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	In Person Learning	Mon Tue Thu Fri	10:00 a.m. - 11:00 a.m.
KORN_V 102-002	KORN_V	102	002	Basic Korean	W1-2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	In Person Learning	Mon Tue Thu Fri	11:00 a.m. - 12:00 p.m.
KORN_V 102-003	KORN_V	102	003	Basic Korean	W1-2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	In Person Learning	Arranged	Arranged
KORN_V 102-004	KORN_V	102	004	Basic Korean	W1-2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	In Person Learning	Mon Tue Thu Fri	1:00 p.m. - 2:00 p.m.
KORN_V 102-005	KORN_V	102	005	Basic Korean	W1-2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	In Person Learning	Mon Tue Thu Fri	2:00 p.m. - 3:00 p.m.
KORN_V 102-006	KORN_V	102	006	Basic Korean	W1-2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	In Person Learning	Arranged	Arranged
KORN_V 102-007	KORN_V	102	007	Basic Korean	W1-2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	In Person Learning	Mon Tue Thu Fri	4:00 p.m. - 5:00 p.m.
KORN_V 102-021	KORN_V	102	021	Basic Korean	W2	An introduction to the grammar and syntax of modern spoken and written Korean. As of 2011W, credit will be granted for only one of KORN 100/101 or KORN 102.	Hybrid Learning	Mon Tue Fri	2:00 p.m. - 4:00 p.m.
KORN_V 200-001	KORN_V	200	001	Intermediate Korean	W1-2	Reading and writing of modern colloquial Korean at an intermediate level. As of 2011W, credit will be granted for only one of KORN 201/202 or KORN 200. Recommended pre-requisites: one of KORN 101, KORN 102.	Hybrid Learning	Tue Fri	10:00 a.m. - 11:00 a.m.
KORN_V 200-002	KORN_V	200	002	Intermediate Korean	W1-2	Reading and writing of modern colloquial Korean at an intermediate level. As of 2011W, credit will be granted for only one of KORN 201/202 or KORN 200. Recommended pre-requisites: one of KORN 101, KORN 102.	Hybrid Learning	Mon	11:00 a.m. - 12:00 p.m.
KORN_V 301-011	KORN_V	301	011	Readings in Korean Topics I	W1	Readings in intermediate-level Korean on aspects of Korean culture, customs, and contemporary life, along with structured conversations based on those readings. As of 2011W, credit will be granted for only one of KORN 301/302 or KORN 300. Recommended pre-requisite: KORN 202 or permission of instructor.	In Person Learning	Tue Fri	2:00 p.m. - 3:30 p.m.
KORN_V 302-021	KORN_V	302	021	Readings in Korean Topics II	W2	Continuation of KORN 301. As of 2011W, credit will be granted for only one of KORN 301/302 or KORN 300. Recommended pre-requisite: KORN 301 or permission of instructor.	In Person Learning	Tue Fri	2:00 p.m. - 3:30 p.m.
KORN_V 351-011	KORN_V	351	011	Introduction to Hancha: Sinographs and Sino-Korean Vocabulary I	W1	Chinese characters in their Korean pronunciations and shapes. Students learn approximately 250 sinographs, related sinographic vocabulary, and do structured readings in mixed scripts on aspects of Korean culture and contemporary life. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of KORN 200, KORN 202, or placement approval.	In Person Learning	Tue Thu	7:00 p.m. - 8:30 p.m.
KORN_V 352-021	KORN_V	352	021	Introduction to Hancha: Sinographs and Sino-Korean Vocabulary II	W2	Continuation of KORN 351. Students learn an additional 250 sinographs and related sinographic vocabulary. This course is not eligible for Credit/D/Fail grading. Prerequisite: KORN 351. or placement approval.	In Person Learning	Tue Thu	7:00 p.m. - 8:30 p.m.

KORN_V 410-A_011	KORN_V	410	A	A_011	Modern Korean Short Fiction	W1	Reading and translating twentieth-century Korean short fiction. Recommended pre-requisites: either (a) KORN 300 or (b) all of KORN 301, KORN 302.	In Person Learning	Arranged	Arranged
KORN_V 410-B_021	KORN_V	410	B	B_021	Modern Korean Short Fiction	W2	Reading and translating twentieth-century Korean short fiction. Recommended pre-requisites: either (a) KORN 300 or (b) all of KORN 301, KORN 302.	In Person Learning	Arranged	Arranged
KORN_V 415-A_011	KORN_V	415	A	A_011	Korean Conversation and Composition	W1	Structured conversation practice and weekly composition assignments based on viewing one designated Korean television program per week. Recommended pre-requisite: KORN 300.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
KORN_V 415-B_021	KORN_V	415	B	B_021	Korean Conversation and Composition	W2	Structured conversation practice and weekly composition assignments based on viewing one designated Korean television program per week. Recommended pre-requisite: KORN 300.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
KORN_V 420-021	KORN_V	420		021	Readings in Middle and Early Modern Korean	W2	History and structure of the Korean language through targeted close readings in different editions of an illustrated text from the 15th and 18th centuries. Prerequisite: Non-heritage speakers should have completed KORN 410 or be taking it concurrently. Heritage and native speakers of Korean welcome.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
LAIS_V 605-001	LAIS_V	605		001	Seminar in Advanced Research Methods	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
LAIS_V 607-001	LAIS_V	607		001	Doctoral Proseminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LAIS_V 608-002	LAIS_V	608		002	Academic and Research Practices in Library, Archival and Information Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
LAIS_V 620-001	LAIS_V	620		001	Advanced Study in Major Area	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609.	In Person Learning	Arranged	Arranged
LAIS_V 620-002	LAIS_V	620		002	Advanced Study in Major Area	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609.	In Person Learning	Arranged	Arranged
LAIS_V 620-003	LAIS_V	620		003	Advanced Study in Major Area	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609.	In Person Learning	Arranged	Arranged
LAIS_V 621-001	LAIS_V	621		001	Advanced Study in Minor Area	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609.	In Person Learning	Arranged	Arranged
LAIS_V 621-002	LAIS_V	621		002	Advanced Study in Minor Area	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609.	In Person Learning	Arranged	Arranged
LAIS_V 621-003	LAIS_V	621		003	Advanced Study in Minor Area	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609.	In Person Learning	Arranged	Arranged
LAIS_V 699-001	LAIS_V	699		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
LAIS_V 699-002	LAIS_V	699		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
LAIS_V 699-003	LAIS_V	699		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
LARC_V 316-002	LARC_V	316		002	Trees and Shrubs in Landscape	W1	Culture and identification of landscape materials with emphasis on woody plants. Elementary principles of landscape composition. Suitable for students of other faculties and departments interested in landscape materials and their uses, but priority given to Agroecology and Landscape Architecture students. [2-2]	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
LARC_V 316-E01	LARC_V	316		E01	Trees and Shrubs in Landscape	W1	Culture and identification of landscape materials with emphasis on woody plants. Elementary principles of landscape composition. Suitable for students of other faculties and departments interested in landscape materials and their uses, but priority given to Agroecology and Landscape Architecture students. [2-2]	In Person Learning	Arranged	Arranged
LARC_V 501-101	LARC_V	501		101	Landscape Architecture Design Studio I	W1	Landscape design methods and processes. This course is not eligible for Credit/D/Fail grading. Corequisite: LARC 511.	In Person Learning	Thu	2:00 p.m. - 6:00 p.m.
LARC_V 502-001	LARC_V	502		001	Landscape Architecture Design Studio II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LARC 316, LARC 501.	In Person Learning	Thu	2:00 p.m. - 6:00 p.m.
LARC_V 503-201	LARC_V	503		201	Landscape Architecture Design Studio III	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Fri	1:30 p.m. - 5:30 p.m.
LARC_V 504-001	LARC_V	504		001	Landscape Architecture Design Studio IV	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.

LARC_V 504-002	LARC_V	504	002	Landscape Architecture Design Studio IV	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.	In Person Learning	Arranged	Arranged
LARC_V 504-003	LARC_V	504	003	Landscape Architecture Design Studio IV	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.	In Person Learning	Arranged	Arranged
LARC_V 504-004	LARC_V	504	004	Landscape Architecture Design Studio IV	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.	In Person Learning	Arranged	Arranged
LARC_V 504-005	LARC_V	504	005	Landscape Architecture Design Studio IV	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
LARC_V 505-001	LARC_V	505	001	Landscape Architecture Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
LARC_V 505-002	LARC_V	505	002	Landscape Architecture Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.	In Person Learning	Arranged	Arranged
LARC_V 505-003	LARC_V	505	003	Landscape Architecture Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.	In Person Learning	Arranged	Arranged
LARC_V 505-004	LARC_V	505	004	Landscape Architecture Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.	In Person Learning	Arranged	Arranged
LARC_V 505-005	LARC_V	505	005	Landscape Architecture Design Studio V	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
LARC_V 510-C_101	LARC_V	510	C	C_101	W1	Advanced Field Studies in Landscape Architecture	In Person Learning	Arranged	Arranged
LARC_V 511-101	LARC_V	511	101	Introductory Workshop	W1	Commences in August one week prior to Labour Day. Enrolment mandatory for all incoming students. Credit will be granted for only one of LARC 511 or ARCH 502. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 522-001	LARC_V	522	001	Landscape Architecture History I	W1	History, principles, and theory of landscape architecture in Europe, America and Asia. Influence of cultural attitudes and societal change upon natural environments, parks, gardens, and town planning. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LARC_V 523-001	LARC_V	523	001	Landscape Architecture Theory	W2	Theoretical positions in landscape architecture and their relation to designed landscapes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
LARC_V 525-002	LARC_V	525	002	Design Research Methods	W2	Examination of various design research methods in contemporary practice in landscape architecture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 531-002	LARC_V	531	002	Landscape Technologies I	W2	Terrain design, drainage and stormwater management. Credit will be granted for only one of LARC 531 or LARC 431. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LARC_V 532-002	LARC_V	532	002	Landscape Technologies II	W1	Hard landscape materials. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
LARC_V 540-001	LARC_V	540	001	Site Analysis and Planning	W1	Site analysis and planning of relatively complex sites, emphasizing stormwater management design. Credit will be granted for only one of LARC 540, LARC 440 or DES 231. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
LARC_V 541-002	LARC_V	541	002	Landscape Planning and Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LARC_V 542-201	LARC_V	542	201	Aesthetics and Sustainability	W2	Analysis and planning of landscapes to communicate sustainability and to inform public awareness and design by exploring the relationship between aesthetics and sustainability. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
LARC_V 543-101	LARC_V	543	101	Environment and Urban Form	W1	Ecological structures and the structure and quality of urban life. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 551-001	LARC_V	551	001	Professional Practice	W2	Ethical, legal and business context of professional practice, including contracts, project management. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LARC_V 570-A_101	LARC_V	570	A	A_101	W1	Co-operative Education	In Person Learning	Arranged	Arranged
LARC_V 570-A_201	LARC_V	570	A	A_201	W2	Co-operative Education	In Person Learning	Arranged	Arranged

LARC_V 580-A_101	LARC_V	580	A	A_101	Directed Studies in Design Analysis, Programming and Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 580-A_201	LARC_V	580	A	A_201	Directed Studies in Design Analysis, Programming and Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 580-B_001	LARC_V	580	B	B_001	Directed Studies in Design Analysis, Programming and Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 580-B_002	LARC_V	580	B	B_002	Directed Studies in Design Analysis, Programming and Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 581-A_101	LARC_V	581	A	A_101	Directed Studies in Landscape Planning and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 581-A_201	LARC_V	581	A	A_201	Directed Studies in Landscape Planning and Sustainability	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 581-B_001	LARC_V	581	B	B_001	Directed Studies in Landscape Planning and Sustainability	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 581-B_002	LARC_V	581	B	B_002	Directed Studies in Landscape Planning and Sustainability	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 581-B_003	LARC_V	581	B	B_003	Directed Studies in Landscape Planning and Sustainability	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 582-A_101	LARC_V	582	A	A_101	Seminar: Special Topics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 582-A_201	LARC_V	582	A	A_201	Seminar: Special Topics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LARC_V 582-B_201	LARC_V	582	B	B_201	Seminar: Special Topics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
LARC_V 595-001	LARC_V	595		001	Graduate Project Part I	W1	Preparation of a graduation design project proposal including literature review. This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 525.	In Person Learning	Wed	1:30 p.m. - 5:30 p.m.
LARC_V 598-201	LARC_V	598		201	Graduate Project Part II	W2	Design component, completion, and defense of the graduation design project. This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 595.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
LARC_V 599-001	LARC_V	599		001	Research Thesis	W1-2	Open only to M.A.S.L.A. candidates. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LASO_V 204-101	LASO_V	204		101	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Tue Thu	3:30 p.m. - 4:30 p.m.
LASO_V 204-201	LASO_V	204		201	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
LASO_V 204-L1A	LASO_V	204		L1A	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Thu	4:30 p.m. - 5:30 p.m.
LASO_V 204-L1B	LASO_V	204		L1B	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LASO_V 204-L1C	LASO_V	204		L1C	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LASO_V 204-L1D	LASO_V	204		L1D	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LASO_V 204-L1E	LASO_V	204		L1E	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
LASO_V 204-L1F	LASO_V	204		L1F	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.

LASO_V 204-L1G	LASO_V	204		L1G	Introduction to Law and Society	W1	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LASO_V 204-L2A	LASO_V	204		L2A	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
LASO_V 204-L2B	LASO_V	204		L2B	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LASO_V 204-L2C	LASO_V	204		L2C	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LASO_V 204-L2D	LASO_V	204		L2D	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LASO_V 204-L2E	LASO_V	204		L2E	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LASO_V 204-L2F	LASO_V	204		L2F	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
LASO_V 204-L2G	LASO_V	204		L2G	Introduction to Law and Society	W2	Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
LASO_V 309-201	LASO_V	309		201	Against the Law	W2	Competing approaches to law and legal authority shaped by conflicts over historical and contemporary inequalities, including the exercise of and challenges to coercive law enforcement and claims made for legal redress.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LASO_V 350-A_101	LASO_V	350	A	A_101	Topics in Law and Society	W1	Interdisciplinary approaches to topics such as the purpose of law, retribution and punishment, restorative justice, ethics, property ownership, human rights, gender equality, legal change, or civil disobedience.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.
LASO_V 350-A_102	LASO_V	350	A	A_102	Topics in Law and Society	W1	Interdisciplinary approaches to topics such as the purpose of law, retribution and punishment, restorative justice, ethics, property ownership, human rights, gender equality, legal change, or civil disobedience.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
LAST_V 100-101	LAST_V	100		101	Introduction to Latin American Studies	W1	An overview of the culture and society of Latin America from ancient to contemporary times and from Argentina to Mexico.	In Person Learning	Arranged	Arranged
LAST_V 100-102	LAST_V	100		102	Introduction to Latin American Studies	W1	An overview of the culture and society of Latin America from ancient to contemporary times and from Argentina to Mexico.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
LAST_V 205-201	LAST_V	205		201	Issues of Development in Modern Latin America	W2	Theory of development in the Latin American context: current problems and development alternatives.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
LAST_V 301-101	LAST_V	301		101	Human and Civil Rights in Latin America	W1	Focuses on human rights movements; state violence and impunity; reform of criminal justice systems; rights of indigenous peoples, women, and minorities; international protection of human rights; the UN and inter-American systems.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
LAST_V 303-201	LAST_V	303		201	Indigenous Latin America	W2	Historical and contemporary cultures, struggles, and experiences of Indigenous peoples in what is now Latin America. Different cultural areas or regions may be selected to illustrate the course's principal themes.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LAST_V 315-A_101	LAST_V	315	A	A_101	Topics in Latin American Studies	W1	Topics will vary from year to year. Consult the program website ( <a href="https://las.arts.ubc.ca/all-courses/">https://las.arts.ubc.ca/all-courses/</a> ) for further details.//	In Person Learning	Arranged	Arranged
LATN_V 101-001	LATN_V	101		001	Beginning Latin I	W1	Classical Latin, Part I.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
LATN_V 101-002	LATN_V	101		002	Beginning Latin I	W1	Classical Latin, Part I.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
LATN_V 101-003	LATN_V	101		003	Beginning Latin I	W1	Classical Latin, Part I.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
LATN_V 101-004	LATN_V	101		004	Beginning Latin I	W1	Classical Latin, Part I.	Online Learning	Arranged	Arranged
LATN_V 101-005	LATN_V	101		005	Beginning Latin I	W2	Classical Latin, Part I.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
LATN_V 101-006	LATN_V	101		006	Beginning Latin I	W1	Classical Latin, Part I.	In Person Learning	Arranged	Arranged

LATN_V 101-007	LATN_V	101	007	Beginning Latin I	W1	Classical Latin, Part I.	In Person Learning	Arranged	Arranged	
LATN_V 102-001	LATN_V	102	001	Beginning Latin II	W2	Classical Latin, Part II. Prerequisite: LATN 101.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
LATN_V 102-002	LATN_V	102	002	Beginning Latin II	W2	Classical Latin, Part II. Prerequisite: LATN 101.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
LATN_V 102-003	LATN_V	102	003	Beginning Latin II	W2	Classical Latin, Part II. Prerequisite: LATN 101.	Online Learning	Arranged	Arranged	
LATN_V 102-004	LATN_V	102	004	Beginning Latin II	W2	Classical Latin, Part II. Prerequisite: LATN 101.	In Person Learning	Arranged	Arranged	
LATN_V 201-001	LATN_V	201	001	Intermediate Latin I	W1	Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.	
LATN_V 201-002	LATN_V	201	002	Intermediate Latin I	W1	Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
LATN_V 201-003	LATN_V	201	003	Intermediate Latin I	W1	Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.	In Person Learning	Arranged	Arranged	
LATN_V 301-001	LATN_V	301	001	Intermediate Latin II	W2	Completion of the grammatical foundations of classical Latin, Part II; an introduction to the reading of unadapted passages of Latin literature and discussion of their cultural contexts. Credit will be granted for only one of LATN 202 or LATN 301. Pre-requisites: LATN 201. Equivalency: LATN 202.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
LATN_V 301-002	LATN_V	301	002	Intermediate Latin II	W2	Completion of the grammatical foundations of classical Latin, Part II; an introduction to the reading of unadapted passages of Latin literature and discussion of their cultural contexts. Credit will be granted for only one of LATN 202 or LATN 301. Pre-requisites: LATN 201. Equivalency: LATN 202.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
LATN_V 350-001	LATN_V	350	001	Latin Literature of the Classical Period (Prose)	W1	Readings in Latin Prose. Prerequisite: One of LATN 301, LATN 202, LATN 200.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
LATN_V 351-001	LATN_V	351	001	Latin Literature of the Classical Period (Verse)	W2	Readings in Latin Verse. Prerequisite: One of LATN 301, LATN 200, LATN 202..	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.	
LATN_V 401-A_001	LATN_V	401	A	A_001	W1	Latin Prose	Studies in history, oratory and/or philosophy. A maximum of 12 credits can be granted for either one of or any combination of LATN 401, LATN 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LATN 350, LATN 351.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LATN_V 401-A_002	LATN_V	401	A	A_002	W1	Latin Prose	Studies in history, oratory and/or philosophy. A maximum of 12 credits can be granted for either one of or any combination of LATN 401, LATN 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LATN 350, LATN 351.	In Person Learning	Arranged	Arranged
LATN_V 402-B_001	LATN_V	402	B	B_001	W2	Latin Verse	Studies in narrative verse, comedy, satire, elegiac and lyric poetry. A maximum of 12 credits can be granted for either one of or any combination of LATN 402, LATN 502. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LATN 350, LATN 351.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
LATN_V 501-A_001	LATN_V	501	A	A_001	W1	Latin Prose	History, oratory and/or philosophy. A maximum of 12 credits can be granted for either one of or any combination of LATN 401, LATN 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LATN_V 501-A_002	LATN_V	501	A	A_002	W1	Latin Prose	History, oratory and/or philosophy. A maximum of 12 credits can be granted for either one of or any combination of LATN 401, LATN 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LATN_V 502-B_001	LATN_V	502	B	B_001	W2	Latin Verse	Narrative verse, comedy, satire, elegiac and lyric poetry. A maximum of 12 credits can be granted for either one of or any combination of LATN 402, LATN 502. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
LATN_V 649-003	LATN_V	649	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
LAW_V 200-001	LAW_V	200	001	Indigenous Settler Legal Relations	W1	Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	
LAW_V 200-002	LAW_V	200	002	Indigenous Settler Legal Relations	W1	Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	
LAW_V 200-003	LAW_V	200	003	Indigenous Settler Legal Relations	W1	Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	

LAW_V 200-004	LAW_V	200	004	Indigenous Settler Legal Relations	W1	Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 202-001	LAW_V	202	001	Advocacy	W2	Introduction to principles of written and oral advocacy. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 202-002	LAW_V	202	002	Advocacy	W2	Introduction to principles of written and oral advocacy. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 211-001	LAW_V	211	001	Contracts	W1-2	Historical development; formation and enforceability of contracts; parties; contractual terms; changes of circumstances; remedies for breach. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
LAW_V 211-002	LAW_V	211	002	Contracts	W1-2	Historical development; formation and enforceability of contracts; parties; contractual terms; changes of circumstances; remedies for breach. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
LAW_V 211-003	LAW_V	211	003	Contracts	W1-2	Historical development; formation and enforceability of contracts; parties; contractual terms; changes of circumstances; remedies for breach. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
LAW_V 211-004	LAW_V	211	004	Contracts	W1-2	Historical development; formation and enforceability of contracts; parties; contractual terms; changes of circumstances; remedies for breach. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
LAW_V 221-001	LAW_V	221	001	Criminal Law and Procedure	W1-2	Bases of criminal responsibility; principles and objectives of the criminal law and procedure; pre-trial procedure. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:30 a.m. - 12:30 p.m.
LAW_V 221-002	LAW_V	221	002	Criminal Law and Procedure	W1-2	Bases of criminal responsibility; principles and objectives of the criminal law and procedure; pre-trial procedure. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LAW_V 221-003	LAW_V	221	003	Criminal Law and Procedure	W1-2	Bases of criminal responsibility; principles and objectives of the criminal law and procedure; pre-trial procedure. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LAW_V 221-004	LAW_V	221	004	Criminal Law and Procedure	W1-2	Bases of criminal responsibility; principles and objectives of the criminal law and procedure; pre-trial procedure. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LAW_V 221-DNU_001	LAW_V	221	DNU_001	Criminal Law and Procedure	W2	Bases of criminal responsibility; principles and objectives of the criminal law and procedure; pre-trial procedure. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 231-001	LAW_V	231	001	Property Law	W1-2	The legal concept of ownership and its changing nature and application, including equitable principles, the acquisition and transfer of interests, the regulation of use, Aboriginal title, and statute-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 2:30 p.m.
LAW_V 231-002	LAW_V	231	002	Property Law	W1-2	The legal concept of ownership and its changing nature and application, including equitable principles, the acquisition and transfer of interests, the regulation of use, Aboriginal title, and statute-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 2:30 p.m.
LAW_V 231-003	LAW_V	231	003	Property Law	W1-2	The legal concept of ownership and its changing nature and application, including equitable principles, the acquisition and transfer of interests, the regulation of use, Aboriginal title, and statute-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 2:30 p.m.
LAW_V 231-004	LAW_V	231	004	Property Law	W1-2	The legal concept of ownership and its changing nature and application, including equitable principles, the acquisition and transfer of interests, the regulation of use, Aboriginal title, and statute-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 2:30 p.m.
LAW_V 241-001	LAW_V	241	001	Torts	W1-2	A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 10:30 a.m.
LAW_V 241-002	LAW_V	241	002	Torts	W1-2	A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 10:30 a.m.
LAW_V 241-003	LAW_V	241	003	Torts	W1-2	A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 10:30 a.m.
LAW_V 241-004	LAW_V	241	004	Torts	W1-2	A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
LAW_V 241-DNU_003	LAW_V	241	DNU_003	Torts	W2	A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 271-001	LAW_V	271	001	Introduction to Public Law and the Charter	W2	An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	10:00 a.m. - 11:30 a.m.
LAW_V 271-002	LAW_V	271	002	Introduction to Public Law and the Charter	W2	An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.

LAW_V 271-003	LAW_V	271	003	Introduction to Public Law and the Charter	W2	An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.	
LAW_V 271-004	LAW_V	271	004	Introduction to Public Law and the Charter	W2	An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.	
LAW_V 281-001	LAW_V	281	001	Legal Research and Writing	W1	Introduction to legal research and writing skills and the use of legal databases. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
LAW_V 281-002	LAW_V	281	002	Legal Research and Writing	W1	Introduction to legal research and writing skills and the use of legal databases. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
LAW_V 281-003	LAW_V	281	003	Legal Research and Writing	W1	Introduction to legal research and writing skills and the use of legal databases. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
LAW_V 281-004	LAW_V	281	004	Legal Research and Writing	W1	Introduction to legal research and writing skills and the use of legal databases. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
LAW_V 291-001	LAW_V	291	001	Aboriginal and Treaty Rights	W2	An overview of the unique constitutional status and rights of Aboriginal Peoples in Canada. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
LAW_V 291-002	LAW_V	291	002	Aboriginal and Treaty Rights	W2	An overview of the unique constitutional status and rights of Aboriginal Peoples in Canada. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
LAW_V 291-003	LAW_V	291	003	Aboriginal and Treaty Rights	W2	An overview of the unique constitutional status and rights of Aboriginal Peoples in Canada. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
LAW_V 291-004	LAW_V	291	004	Aboriginal and Treaty Rights	W2	An overview of the unique constitutional status and rights of Aboriginal Peoples in Canada. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
LAW_V 300-001	LAW_V	300	001	Jurisprudence and Critical Perspectives	W2	Introduction to the basic principles of legal theory and critical perspectives on law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
LAW_V 300-002	LAW_V	300	002	Jurisprudence and Critical Perspectives	W2	Introduction to the basic principles of legal theory and critical perspectives on law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.	
LAW_V 300-003	LAW_V	300	003	Jurisprudence and Critical Perspectives	W1	Introduction to the basic principles of legal theory and critical perspectives on law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.	
LAW_V 300-004	LAW_V	300	004	Jurisprudence and Critical Perspectives	W1	Introduction to the basic principles of legal theory and critical perspectives on law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.	
LAW_V 304-001	LAW_V	304	001	Transnational Law	W1	Introduction to principles of public and private international law and research methods for international legal materials.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.	
LAW_V 304-002	LAW_V	304	002	Transnational Law	W2	Introduction to principles of public and private international law and research methods for international legal materials.	In Person Learning	Fri	10:30 a.m. - 12:30 p.m.	
LAW_V 304-003	LAW_V	304	003	Transnational Law	W1	Introduction to principles of public and private international law and research methods for international legal materials.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.	
LAW_V 304-004	LAW_V	304	004	Transnational Law	W2	Introduction to principles of public and private international law and research methods for international legal materials.	In Person Learning	Arranged	Arranged	
LAW_V 304-005	LAW_V	304	005	Transnational Law	W2	Introduction to principles of public and private international law and research methods for international legal materials.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
LAW_V 305-D_001	LAW_V	305	D	D_001	Law, Society and State	W1	Theories of the relationship between the legal system, social relations and the state. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LAW_V 306-D_001	LAW_V	306	D	D_001	Corporate Social Responsibility and the Law	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 307-D_001	LAW_V	307	D	D_001	Women, Law and Social Change	W1	A survey of feminist approaches to law, with reference to selected substantive areas of the law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LAW_V 308-D_001	LAW_V	308	D	D_001	Feminist Legal Theory	W1	Recent developments in feminist legal theory. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.

LAW_V 312-D_001	LAW_V	312	D	D_001	Topics in Philosophy of Law and Theoretical Perspectives	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 312-D_002	LAW_V	312	D	D_002	Topics in Philosophy of Law and Theoretical Perspectives	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
LAW_V 313-D_001	LAW_V	313	D	D_001	Legal History	W2	The relationship between law, society and historical change, normally emphasizing 19th and 20th century issues. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 316-C_001	LAW_V	316	C	C_001	International Law	W1	The history, sources and evidence of international law and its relation to municipal law; international personality; state jurisdiction; and treaties. Credit will be granted for only one of LAW 316 or POLI 376. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
LAW_V 316-D_001	LAW_V	316	D	D_001	International Law	W1	The history, sources and evidence of international law and its relation to municipal law; international personality; state jurisdiction; and treaties. Credit will be granted for only one of LAW 316 or POLI 376. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 316-D_002	LAW_V	316	D	D_002	International Law	W1	The history, sources and evidence of international law and its relation to municipal law; international personality; state jurisdiction; and treaties. Credit will be granted for only one of LAW 316 or POLI 376. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 319-D_001	LAW_V	319	D	D_001	International Human Rights	W2	The recognition and protection of human rights in international law. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 321-D_001	LAW_V	321	D	D_001	Law of Armed Conflict	W1	The legal basis for armed conflict or military operations; the rights and obligations of combatants and civilians in a region of armed conflict; war crimes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:30 p.m. - 8:30 p.m.
LAW_V 322-001	LAW_V	322		001	International Law Problems	W2	Selected issues in international law. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
LAW_V 323-D_001	LAW_V	323	D	D_001	International Environmental Law	W2	Customary international law and treaties relating to the environment; institutional structures. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
LAW_V 324-D_001	LAW_V	324	D	D_001	Topics in International Law and Transactions	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 325-001	LAW_V	325		001	Conflict of Laws	W1	A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 325 or LAW 592. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
LAW_V 332-001	LAW_V	332		001	Maritime Law	W2	Canadian maritime law and admiralty practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
LAW_V 334-001	LAW_V	334		001	Introduction to Asian Legal Systems	W1	Introduction to the comparative study of legal systems of East and South-East Asia, including those of China and Japan. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
LAW_V 336-001	LAW_V	336		001	Chinese Law: Implications for Canada-China Relations	W2	Overview of the laws and legal system in the People's Republic of China with some introduction to Taiwan law. Legal interpretation of implications for Canada-China relations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 338-D_001	LAW_V	338	D	D_001	Japanese Law	W1	Constitutional foundation and protection of human rights under Japanese law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
LAW_V 342-A_001	LAW_V	342	A	A_001	Topics in Comparative Law	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 342-D_001	LAW_V	342	D	D_001	Topics in Comparative Law	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
LAW_V 343-D_001	LAW_V	343	D	D_001	Topics in Public Law - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 343 or LAW 543. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
LAW_V 343-D_002	LAW_V	343	D	D_002	Topics in Public Law - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 343 or LAW 543. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
LAW_V 343-D_003	LAW_V	343	D	D_003	Topics in Public Law - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 343 or LAW 543. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
LAW_V 343-D_004	LAW_V	343	D	D_004	Topics in Public Law - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 343 or LAW 543. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
LAW_V 343-D_005	LAW_V	343	D	D_005	Topics in Public Law - Seminar	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 343 or LAW 543. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.

LAW_V 344-D_001	LAW_V	344	D	D_001	Innovation, Law, and Regulation	W2	Examines and applies interdisciplinary research on regulation, governance, and institutional and legal design under conditions of change and uncertainty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
LAW_V 345-C_001	LAW_V	345	C	C_001	Topics in Public Law - Lecture	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
LAW_V 345-C_002	LAW_V	345	C	C_002	Topics in Public Law - Lecture	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
LAW_V 347-B_001	LAW_V	347	B	B_001	Federalism	W1	An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:30 a.m. - 12:30 p.m.
LAW_V 347-B_002	LAW_V	347	B	B_002	Federalism	W1	An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 3:30 p.m.
LAW_V 347-B_003	LAW_V	347	B	B_003	Federalism	W2	An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:30 a.m. - 12:30 p.m.
LAW_V 347-B_004	LAW_V	347	B	B_004	Federalism	W2	An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 3:30 p.m.
LAW_V 347-B_006	LAW_V	347	B	B_006	Federalism	W2	An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 10:30 a.m.
LAW_V 348-D_001	LAW_V	348	D	D_001	Comparative Constitutional Law	W2	Comparison of the constitutional history, government structure and powers, and protection of individual rights between the United States and Canada. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
LAW_V 349-D_001	LAW_V	349	D	D_001	Topics in Constitutional Law	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 349 or LAW 539. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LAW_V 351-A_001	LAW_V	351	A	A_001	Topics in Human Rights	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 351-A_002	LAW_V	351	A	A_002	Topics in Human Rights	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 12:30 p.m.
LAW_V 351-D_001	LAW_V	351	D	D_001	Topics in Human Rights	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 352-001	LAW_V	352		001	Aboriginal Peoples and Canadian Law	W1	Survey of the history and present status of the legal relationships between Canada's Aboriginal peoples and the state. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LAW_V 353-D_001	LAW_V	353	D	D_001	Aboriginal and Treaty Rights	W1	Rights of Aboriginal people stemming from their aboriginal status and from treaties. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LAW_V 356-001	LAW_V	356		001	First Nations and Economic Development	W2	Legal issues affecting land use and economic activity involving First Nations' resources. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 357-C_001	LAW_V	357	C	C_001	Topics in First Nations Law - Lecture	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 357 or LAW 579. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
LAW_V 358-D_001	LAW_V	358	D	D_001	Topics in First Nations Law - Seminar	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 358 or LAW 558. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LAW_V 358-D_002	LAW_V	358	D	D_002	Topics in First Nations Law - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 358 or LAW 558. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LAW_V 358-D_003	LAW_V	358	D	D_003	Topics in First Nations Law - Seminar	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 358 or LAW 558. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 359-C_001	LAW_V	359	C	C_001	Family Law	W1	The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 359 or LAW 559. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
LAW_V 359-C_002	LAW_V	359	C	C_002	Family Law	W2	The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 359 or LAW 559. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:30 p.m.
LAW_V 360-001	LAW_V	360		001	Children and the Law	W2	The civil and criminal law affecting juveniles; custody, guardianship and adoption. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.

LAW_V 363-D_001	LAW_V	363	D	D_001	Racism and Law	W1	Legal issues relating to race and racism, including related issues of gender, culture or identity. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 367-001	LAW_V	367		001	Reproduction and Law	W1	Legal issues relating to human reproduction. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
LAW_V 368-001	LAW_V	368		001	Sexuality and Law	W2	Legal issues relating to sexual activity, orientation and identification. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LAW_V 370-D_001	LAW_V	370	D	D_001	Topics in Social Justice	W1	Not offered every year; consult the Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 372-C_001	LAW_V	372	C	C_001	Administrative Law	W1	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 11:00 a.m.
LAW_V 372-C_002	LAW_V	372	C	C_002	Administrative Law	W2	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:30 p.m.
LAW_V 372-C_003	LAW_V	372	C	C_003	Administrative Law	W2	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 3:30 p.m.
LAW_V 372-C_004	LAW_V	372	C	C_004	Administrative Law	W1	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
LAW_V 374-001	LAW_V	374		001	Municipal Law	W2	The municipality as a legal entity; its creation, operation and powers; by-laws and their validity; contractual liability; judicial review; business regulation; expropriation and land use control. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
LAW_V 377-001	LAW_V	377		001	Immigration Law	W2	Admission of immigrants into Canada; refugee protection; practice and procedure before immigration tribunals and the courts. Credit will only be granted for one of LAW 377 or LAW 577. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
LAW_V 378-D_001	LAW_V	378	D	D_001	Refugee Law	W2	International and Canadian refugee law; the Refugee Convention and its implementation in Canada; the practice of refugee law in Canadian courts and tribunals. Course content does not duplicate LAW 377. Credit will only be given to one of LAW 378 or LAW 578. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LAW_V 379-B_001	LAW_V	379	B	B_001	Externship	W1	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 11:30 a.m.
LAW_V 379-B_002	LAW_V	379	B	B_002	Externship	W2	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 11:30 a.m.
LAW_V 379-D_003	LAW_V	379	D	D_003	Externship	W1	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 379-D_004	LAW_V	379	D	D_004	Externship	W2	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 379-D_005	LAW_V	379	D	D_005	Externship	W1	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 379-E_001	LAW_V	379	E	E_001	Externship	W1	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 379-E_002	LAW_V	379	E	E_002	Externship	W2	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 379-E_006	LAW_V	379	E	E_006	Externship	W1	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 379-E_007	LAW_V	379	E	E_007	Externship	W2	Students work for an approved organization, supervised by a Faculty-approved mentor and a faculty member. Consult the Faculty for full eligibility criteria. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 380-A_001	LAW_V	380	A	A_001	Externship Reflection	W1	Structured reflective exercises on the LAW 379 Externship experience.	In Person Learning	Wed	8:30 a.m. - 10:30 a.m.
LAW_V 380-A_002	LAW_V	380	A	A_002	Externship Reflection	W2	Structured reflective exercises on the LAW 379 Externship experience.	In Person Learning	Wed	8:30 a.m. - 10:30 a.m.

LAW_V 380-A_003	LAW_V	380	A	A_003	Externship Reflection	W1	Structured reflective exercises on the LAW 379 Externship experience.	In Person Learning	Sat	9:00 a.m. - 5:00 p.m.
LAW_V 380-A_004	LAW_V	380	A	A_004	Externship Reflection	W2	Structured reflective exercises on the LAW 379 Externship experience.	In Person Learning	Sat	9:00 a.m. - 5:00 p.m.
LAW_V 380-C_005	LAW_V	380	C	C_005	Externship Reflection	W1	Structured reflective exercises on the LAW 379 Externship experience.	In Person Learning	Arranged	Arranged
LAW_V 380-C_006	LAW_V	380	C	C_006	Externship Reflection	W1	Structured reflective exercises on the LAW 379 Externship experience.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
LAW_V 380-C_007	LAW_V	380	C	C_007	Externship Reflection	W2	Structured reflective exercises on the LAW 379 Externship experience.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
LAW_V 382-001	LAW_V	382		001	Health Law	W1	Legal and policy issues relating to the health care system, including legal aspects of individual and public health decision-making. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
LAW_V 386-D_001	LAW_V	386	D	D_001	Sustainable Development Law	W2	The linkages, intersections, and tensions between the legal regulation of the environment and competing social and economic priorities. Credit will only be granted for one of LAW 386 or LAW 586. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 387-B_001	LAW_V	387	B	B_001	Environmental Law	W2	A foundation course dealing with the regulatory and policy framework for the protection of the environment in Canada, such as pollution control and biodiversity conservation. Credit will only be granted for one of LAW 387 LAW 587. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LAW_V 387-C_001	LAW_V	387	C	C_001	Environmental Law	W2	A foundation course dealing with the regulatory and policy framework for the protection of the environment in Canada, such as pollution control and biodiversity conservation. Credit will only be granted for one of LAW 387 LAW 587. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 391-D_001	LAW_V	391	D	D_001	Topics in Environmental Law	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
LAW_V 392-001	LAW_V	392		001	Natural Resources Law	W2	A foundation course dealing with legal problems common to the management of natural resources such as fisheries, mines and minerals, petroleum, forests, and water resources. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
LAW_V 393-D_001	LAW_V	393	D	D_001	Green Rights and Warrior Lawyers	W2	Explore the human right to a healthy environment and the rights of nature through the stories of environmental lawyers and defenders worldwide who struggle for environmental justice through law. No pre- or co-requisites. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
LAW_V 394-001	LAW_V	394		001	Mining Law	W1	Acquisition of mineral interests; development, financing and organization of mining companies; regulation of exploitation industry interests; management taxation. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
LAW_V 395-001	LAW_V	395		001	Forest Law	W1	Acquisition of timber interests; development, financing and organization of timber companies; regulation of exploitation industry interests; management taxation. Not offered each year; consult Faculty. Credit will only be granted for one of LAW 395 or LAW 595. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 400-001	LAW_V	400		001	Advanced Criminal Procedure	W2	Selected topics relating to procedural law and practice in criminal matters. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LAW_V 401-D_001	LAW_V	401	D	D_001	Penal Policy	W2	Selected legal policy issues relating to punishment for crime. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LAW_V 402-D_001	LAW_V	402	D	D_001	The Law of Sexual Offences	W2	Criminal law relating to sexual offences, including non-consent, evidentiary and procedural rules, and sentencing. History of sexual offence laws and law reform movements. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
LAW_V 403-001	LAW_V	403		001	Principles of Sentencing	W1	This course is designed to teach students the law and policy involved in sentencing persons convicted of crimes. Students will develop an in-depth understanding of statutory and case law rules regarding sentencing and will be required to apply those rules to actual sentencing scenarios. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 404-001	LAW_V	404		001	The Law of Homicide	W2	Available in online distance education format only. Elements of sentencing for murder, manslaughter and infanticide; defences to homicide; parties to homicide; and corporate homicide. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 405-C_001	LAW_V	405	C	C_001	Topics in Criminal Law	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
LAW_V 406-D_001	LAW_V	406	D	D_001	Topics in Criminal Justice	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LAW_V 406-D_002	LAW_V	406	D	D_002	Topics in Criminal Justice	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
LAW_V 406-D_003	LAW_V	406	D	D_003	Topics in Criminal Justice	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

LAW_V 407-C_001	LAW_V	407	C	C_001	Taxation	W1	A survey of the law and practice of income and capital gains taxes. Credit will be granted for only one of LAW 407 or LAW 506. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:30 p.m.
LAW_V 407-C_002	LAW_V	407	C	C_002	Taxation	W2	A survey of the law and practice of income and capital gains taxes. Credit will be granted for only one of LAW 407 or LAW 506. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:30 p.m.
LAW_V 408-001	LAW_V	408		001	Taxation of Corporations and Shareholders	W1	Survey of statutory provisions and judicial decisions governing the taxation of corporations and shareholders. Credit will be granted for only one of LAW 408 or LAW 562. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LAW_V 409-001	LAW_V	409		001	Taxation of Partnerships	W1	Survey of statutory and judicial rules governing the taxation of income earned through partnerships. Credit will be granted for only one of LAW 409 or LAW 563. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 410-001	LAW_V	410		001	International Taxation	W2	The tax aspects of international transactions. Not offered each year; consult Faculty. Credit will be granted for only one of LAW 410 or LAW 565. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LAW_V 411-D_001	LAW_V	411	D	D_001	Tax Policy	W1	The policies underlying the creation and implementation of tax laws. Not offered each year, consult Faculty. Credit will be granted for only one of LAW 411 or LAW 566. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 412-001	LAW_V	412		001	Taxation of Trusts and Estates	W2	Not offered each year, consult Faculty. Credit will be granted for only one of LAW 412 or LAW 564. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:30 p.m. - 8:30 p.m.
LAW_V 413-D_001	LAW_V	413	D	D_001	Tax Administration and Dispute Resolution	W1	Not offered each year, consult Faculty. Credit will be granted for only one of LAW 413 or LAW 567. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:30 p.m. - 8:30 p.m.
LAW_V 414-001	LAW_V	414		001	Taxation of Corporate Reorganizations	W2	Survey of statutory provisions and judicial decisions governing the taxation of corporate reorganizations. Credit will be granted for only one of LAW 414 or LAW 550. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LAW_V 416-001	LAW_V	416		001	Labour Law	W1	Union-management relations; the collective bargaining process; the collective agreement, arbitration and conciliation procedure. The relationship between the union and its membership. This course is not eligible for Credit/D/Fail grading. [2-0] or [3-0]	In Person Learning	Mon	5:30 p.m. - 8:30 p.m.
LAW_V 416-002	LAW_V	416		002	Labour Law	W1	Union-management relations; the collective bargaining process; the collective agreement, arbitration and conciliation procedure. The relationship between the union and its membership. This course is not eligible for Credit/D/Fail grading. [2-0] or [3-0]	In Person Learning	Arranged	Arranged
LAW_V 419-C_001	LAW_V	419	C	C_001	Individual Employment Law	W2	Legal aspects of employment relationships other than those arising by collective bargaining. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 419 or LAW 519. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
LAW_V 420-A_001	LAW_V	420	A	A_001	Topics in Intellectual Property - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 420 or LAW 520. This course may be graded as Honours/Pass/Fail or percentage.	In Person Learning	Arranged	Arranged
LAW_V 420-D_001	LAW_V	420	D	D_001	Topics in Intellectual Property - Seminar	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 420 or LAW 520. This course may be graded as Honours/Pass/Fail or percentage.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 422-001	LAW_V	422		001	Intellectual Property	W1	Copyright, patents, trademarks, industrial design, the protection of computer software, and torts such as passing-off and breach of confidence. Credit will only be granted for one of LAW 422 or LAW 570. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 422-002	LAW_V	422		002	Intellectual Property	W2	Copyright, patents, trademarks, industrial design, the protection of computer software, and torts such as passing-off and breach of confidence. Credit will only be granted for one of LAW 422 or LAW 570. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 423-C_001	LAW_V	423	C	C_001	Topics in Intellectual Property - Lecture	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 423 or LAW 523. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LAW_V 423-C_002	LAW_V	423	C	C_002	Topics in Intellectual Property - Lecture	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 423 or LAW 523. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
LAW_V 424-001	LAW_V	424		001	Communications Law	W1	Selected legal issues relating to the communications industries and their regulation. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 424 or LAW 571. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 425-D_001	LAW_V	425	D	D_001	Cyberspace Law	W2	Legal issues arising from the development of the Internet and cyberspace. Credit will only be granted for one of LAW 425 or LAW 572. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LAW_V 426-A_001	LAW_V	426	A	A_001	Topics in Law and Technology	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 12:30 p.m.
LAW_V 426-D_001	LAW_V	426	D	D_001	Topics in Law and Technology	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 427-A_001	LAW_V	427	A	A_001	International Justice and Human Rights Clinic Practicum	W1	The Clinic Practicum is a collaborative effort where clinicians work in teams of two to four on cases and projects that respond to human rights violations and/or global injustice. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

LAW_V 427-E_001	LAW_V	427	E	E_001	International Justice and Human Rights Clinic Practicum	W2	The Clinic Practicum is a collaborative effort where clinicians work in teams of two to four on cases and projects that respond to human rights violations and/or global injustice. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 428-A_001	LAW_V	428	A	A_001	International Justice and Human Rights Clinical Seminar	W1	The seminar explores foundational texts and treaties in international human rights, international humanitarian and international criminal law necessary to undertake the IJHR Clinic case and project work in the Fall and Spring Practicum. [2-0] or [3-0] The Clinic is a family law legal clinic where students are temporarily articulated under the Law Society of BC and practice primarily family law, providing legal advice and assistance to clients, under the supervision of instructors. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Corequisite: LAW 431.	In Person Learning	Arranged	Arranged
LAW_V 429-001	LAW_V	429		001	Rise Womens Legal Centre - Clinic	W1	The Clinic is a family law legal clinic where students are temporarily articulated under the Law Society of BC and practice primarily family law, providing legal advice and assistance to clients, under the supervision of instructors. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Corequisite: LAW 431.	In Person Learning	Arranged	Arranged
LAW_V 429-002	LAW_V	429		002	Rise Womens Legal Centre - Clinic	W2	The Clinic is a family law legal clinic where students are temporarily articulated under the Law Society of BC and practice primarily family law, providing legal advice and assistance to clients, under the supervision of instructors. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Corequisite: LAW 431.	In Person Learning	Arranged	Arranged
LAW_V 430-001	LAW_V	430		001	Advanced Legal Research	W2	Research using electronic databases, information systems, and non-legal databases relevant to the resolution of legal issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 430-002	LAW_V	430		002	Advanced Legal Research	W2	Research using electronic databases, information systems, and non-legal databases relevant to the resolution of legal issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
LAW_V 430-003	LAW_V	430		003	Advanced Legal Research	W1	Research using electronic databases, information systems, and non-legal databases relevant to the resolution of legal issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.
LAW_V 430-004	LAW_V	430		004	Advanced Legal Research	W1	Research using electronic databases, information systems, and non-legal databases relevant to the resolution of legal issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:30 p.m. - 8:30 p.m.
LAW_V 431-D_001	LAW_V	431	D	D_001	Rise Womens Legal Centre - Seminar: Social Justice Issues for Families in the Legal System	W1	This seminar explores issues of social justice for families in the legal system, necessary to undertake the Rise Womens Legal Centre Clinic in the Fall, Spring and Summer terms. Corequisite: LAW 429.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
LAW_V 431-D_002	LAW_V	431	D	D_002	Rise Womens Legal Centre - Seminar: Social Justice Issues for Families in the Legal System	W2	This seminar explores issues of social justice for families in the legal system, necessary to undertake the Rise Womens Legal Centre Clinic in the Fall, Spring and Summer terms. Corequisite: LAW 429.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
LAW_V 432-D_001	LAW_V	432	D	D_001	Topics in Private Law	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 432-D_002	LAW_V	432	D	D_002	Topics in Private Law	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 432-D_003	LAW_V	432	D	D_003	Topics in Private Law	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 433-C_001	LAW_V	433	C	C_001	Topics in Tort Law - Lecture	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
LAW_V 434-001	LAW_V	434		001	Medical Negligence Law	W2	Legal issues relating to tort claims in negligence and related causes of action against health care providers, with a primary focus on physicians and hospital authorities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.
LAW_V 435-D_001	LAW_V	435	D	D_001	Topics in Tort Law - Seminar	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:30 p.m. - 8:30 p.m.
LAW_V 436-001	LAW_V	436		001	Restitution	W1	Unjust enrichment as the basis of civil liability. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 437-001	LAW_V	437		001	Commercial Transactions	W2	The law of sale of goods, bills of exchange, promissory notes, and cheques. Credit will only be granted for one of LAW 437 or LAW 537. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
LAW_V 438-001	LAW_V	438		001	Secured Transactions	W2	The law governing the creation, perfection and enforcement of security interests in personal property. Credit will only be granted for one of LAW 438 or LAW 538. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LAW_V 438-002	LAW_V	438		002	Secured Transactions	W1	The law governing the creation, perfection and enforcement of security interests in personal property. Credit will only be granted for one of LAW 438 or LAW 538. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
LAW_V 439-001	LAW_V	439		001	Construction Law	W1	Legal issues relating to the construction process. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:30 p.m. - 8:30 p.m.
LAW_V 440-001	LAW_V	440		001	Insurance Law	W1	The general legal principles of life, automobile, fire and other types of insurance; the regulation of the insurance industry. Credit will only be granted for one of LAW 440 or LAW 540. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
LAW_V 442-001	LAW_V	442		001	Condominium Law	W2	Legal issues over the lifecycle of condominium/strata property from creation and development, through operating life, to termination. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.

LAW_V 443-001	LAW_V	443	001	Creditors' Remedies	W2	Remedies of an unsecured creditor; fraudulent conveyances and preferences; builders' liens; bankruptcy. Credit will only be granted for one of LAW 443 or LAW 599. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
LAW_V 444-001	LAW_V	444	001	Insolvency Law	W1	The law relating to insolvency, receivership and bankruptcy. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
LAW_V 446-001	LAW_V	446	001	Corporate Solicitors' Workshop	W2	Introduces students to the work of a corporate solicitor, including experience in planning, drafting and negotiating commercial transactions. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:30 p.m. - 8:30 p.m.	
LAW_V 447-A_001	LAW_V	447	A	A_001	Topics in Commercial Law	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 447 or LAW 547. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 12:30 p.m.
LAW_V 447-C_001	LAW_V	447	C	C_001	Topics in Commercial Law	W1	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 447 or LAW 547. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.
LAW_V 447-C_002	LAW_V	447	C	C_002	Topics in Commercial Law	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 447 or LAW 547. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 448-D_001	LAW_V	448	D	D_001	Sports Law	W1	Legal issues relating to the sports industry and those who participate in it. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 448 or LAW 548. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 451-001	LAW_V	451	001	Trusts	W2	History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will be only be granted for one of LAW 451 or LAW 551. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.	
LAW_V 451-002	LAW_V	451	002	Trusts	W1	History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will be only be granted for one of LAW 451 or LAW 551. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.	
LAW_V 452-001	LAW_V	452	001	Succession	W2	The law of wills and intestate succession, variation of wills, principles of probate and administration of estates. Credit will only be granted for one of LAW 452 or LAW 574. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.	
LAW_V 455-001	LAW_V	455	001	Real Estate Transactions	W1	The law relating to the sale and purchase of land, real estate agency, and mortgages. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
LAW_V 455-002	LAW_V	455	002	Real Estate Transactions	W2	The law relating to the sale and purchase of land, real estate agency, and mortgages. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:30 p.m. - 8:30 p.m.	
LAW_V 456-C_001	LAW_V	456	C	C_001	Topics in Corporate Law - Lecture	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 456 or LAW 596. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LAW_V 459-C_001	LAW_V	459	C	C_001	Business Organizations	W1	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 459 or LAW 508. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
LAW_V 459-C_002	LAW_V	459	C	C_002	Business Organizations	W1	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 459 or LAW 508. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 5:30 p.m.
LAW_V 459-C_003	LAW_V	459	C	C_003	Business Organizations	W2	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 459 or LAW 508. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:30 p.m.
LAW_V 459-C_004	LAW_V	459	C	C_004	Business Organizations	W1	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 459 or LAW 508. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 459-C_005	LAW_V	459	C	C_005	Business Organizations	W1	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 459 or LAW 508. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 460-001	LAW_V	460	001	Advanced Corporate Law	W2	Selected topics such as the nature of shares, equity financing, corporate structure and reorganization, and shareholder squeezeouts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.	
LAW_V 461-001	LAW_V	461	001	Corporate Transactions	W2	Legal aspects of selected transactions relating to public corporations and corporate governance. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.	
LAW_V 462-001	LAW_V	462	001	Close Corporations	W1-2	The corporation, taxation, accounting, insurance and estate planning aspects of the close corporation. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.	
LAW_V 463-001	LAW_V	463	001	Securities Regulation	W1	The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 463 or LAW 576. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
LAW_V 463-002	LAW_V	463	002	Securities Regulation	W2	The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 463 or LAW 576. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	

LAW_V 464-001	LAW_V	464	001	Competition Policy	W2	The law and policy relating to the regulation of competition in Canada and other jurisdictions. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
LAW_V 466-001	LAW_V	466	001	Business Law Capstone	W2	Integration of theoretical and practical elements of business law. For students opting for the Business Law Concentration. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LAW_V 467-D_001	LAW_V	467	D_001	Topics in Corporate Law - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 467 or LAW 594. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
LAW_V 467-D_002	LAW_V	467	D_002	Topics in Corporate Law - Seminar	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 467 or LAW 594. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 468-001	LAW_V	468	001	Ethics and Professionalism	W2	Ethical dimensions of legal practice in Canada, including legislation, regulations, rules and cases, as well as the roles of lawyers, the legal profession and the legal system. Credit will be granted for only one of LAW 468 or LAW 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LAW_V 468-002	LAW_V	468	002	Ethics and Professionalism	W2	Ethical dimensions of legal practice in Canada, including legislation, regulations, rules and cases, as well as the roles of lawyers, the legal profession and the legal system. Credit will be granted for only one of LAW 468 or LAW 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
LAW_V 468-003	LAW_V	468	003	Ethics and Professionalism	W1	Ethical dimensions of legal practice in Canada, including legislation, regulations, rules and cases, as well as the roles of lawyers, the legal profession and the legal system. Credit will be granted for only one of LAW 468 or LAW 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 468-004	LAW_V	468	004	Ethics and Professionalism	W1	Ethical dimensions of legal practice in Canada, including legislation, regulations, rules and cases, as well as the roles of lawyers, the legal profession and the legal system. Credit will be granted for only one of LAW 468 or LAW 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
LAW_V 468-005	LAW_V	468	005	Ethics and Professionalism	W1	Ethical dimensions of legal practice in Canada, including legislation, regulations, rules and cases, as well as the roles of lawyers, the legal profession and the legal system. Credit will be granted for only one of LAW 468 or LAW 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LAW_V 468-007	LAW_V	468	007	Ethics and Professionalism	W2	Ethical dimensions of legal practice in Canada, including legislation, regulations, rules and cases, as well as the roles of lawyers, the legal profession and the legal system. Credit will be granted for only one of LAW 468 or LAW 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LAW_V 468-008	LAW_V	468	008	Ethics and Professionalism	W2	Ethical dimensions of legal practice in Canada, including legislation, regulations, rules and cases, as well as the roles of lawyers, the legal profession and the legal system. Credit will be granted for only one of LAW 468 or LAW 588. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LAW_V 469-001	LAW_V	469	001	Civil Procedure	W1	Problems in the conduct of civil litigation including: ethical considerations; substantive problems such as notice, pleading, and discovery; and selected procedural problems. Credit will only be granted for one of LAW 469 or LAW 590. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
LAW_V 469-002	LAW_V	469	002	Civil Procedure	W2	Problems in the conduct of civil litigation including: ethical considerations; substantive problems such as notice, pleading, and discovery; and selected procedural problems. Credit will only be granted for one of LAW 469 or LAW 590. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.
LAW_V 469-003	LAW_V	469	003	Civil Procedure	W2	Problems in the conduct of civil litigation including: ethical considerations; substantive problems such as notice, pleading, and discovery; and selected procedural problems. Credit will only be granted for one of LAW 469 or LAW 590. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:30 a.m. - 11:30 a.m.
LAW_V 470-001	LAW_V	470	001	Innocence Project	W1-2	Clinical program giving hands-on experience in reviewing claims of innocence post-conviction. Not offered every year; consult Faculty.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LAW_V 471-D_001	LAW_V	471	D_001	Preventing Wrongful Convictions	W1	Substantive legal principles and rules of evidence that can cause or help to prevent wrongful convictions or other miscarriages of justice. Roles of the participants in the criminal justice system. Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
LAW_V 472-001	LAW_V	472	001	Advanced Trial Advocacy	W1	Skills-training in all aspects of civil and criminal trial advocacy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:30 p.m. - 7:30 p.m.
LAW_V 473-001	LAW_V	473	001	Appellate Advocacy	W2	Issues relating to advocacy before appellate courts; techniques of appellate advocacy. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
LAW_V 474-001	LAW_V	474	001	Trial Advocacy	W1	Techniques of advocacy in civil and criminal cases including interviewing, pre-trial preparation, tactical analysis, development of facts, direct and cross examination and various ethical considerations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
LAW_V 474-L01	LAW_V	474	L01	Trial Advocacy	W1	Techniques of advocacy in civil and criminal cases including interviewing, pre-trial preparation, tactical analysis, development of facts, direct and cross examination and various ethical considerations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 7:00 p.m.
LAW_V 474-L02	LAW_V	474	L02	Trial Advocacy	W1	Techniques of advocacy in civil and criminal cases including interviewing, pre-trial preparation, tactical analysis, development of facts, direct and cross examination and various ethical considerations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:30 p.m. - 7:30 p.m.
LAW_V 474-L03	LAW_V	474	L03	Trial Advocacy	W1	Techniques of advocacy in civil and criminal cases including interviewing, pre-trial preparation, tactical analysis, development of facts, direct and cross examination and various ethical considerations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 8:00 p.m.
LAW_V 474-L04	LAW_V	474	L04	Trial Advocacy	W1	Techniques of advocacy in civil and criminal cases including interviewing, pre-trial preparation, tactical analysis, development of facts, direct and cross examination and various ethical considerations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:30 p.m. - 7:30 p.m.

LAW_V 475-C_001	LAW_V	475	C	C_001	Competitive Trial Advocacy Credit	W1	Trial advocacy. Restricted to students participating in one or more faculty approved trial advocacy competitions. Students enrolled in this course must also be enrolled in LAW 474. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 475-D_001	LAW_V	475	D	D_001	Competitive Trial Advocacy Credit	W1-2	Trial advocacy. Restricted to students participating in one or more faculty approved trial advocacy competitions. Students enrolled in this course must also be enrolled in LAW 474. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 476-C_001	LAW_V	476	C	C_001	Evidence	W2	The admissibility and use of evidence in litigation. Credit will be granted for only one of LAW 476 or LAW 507. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
LAW_V 476-C_002	LAW_V	476	C	C_002	Evidence	W1	The admissibility and use of evidence in litigation. Credit will be granted for only one of LAW 476 or LAW 507. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
LAW_V 477-001	LAW_V	477		001	Negotiation and Dispute Resolution	W2	Negotiation and bargaining; formulation of general principles governing the negotiation process; negotiation in legal practice; alternative means of dispute resolution. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 478-001	LAW_V	478		001	Foundations of Dispute Resolution	W1	Theoretical premises underlying the dispute-resolving process; arbitration, other non-judicial means of resolving legal disputes, and their relationship to litigation. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 481-D_001	LAW_V	481	D	D_001	Topics in Litigation, Dispute Resolution and the Administration of Justice	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LAW_V 481-D_002	LAW_V	481	D	D_002	Topics in Litigation, Dispute Resolution and the Administration of Justice	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
LAW_V 483-B_001	LAW_V	483	B	B_001	Moots and Advocacy	W1-2	Appellate and related forms of advocacy. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 483-C_001	LAW_V	483	C	C_001	Moots and Advocacy	W1-2	Appellate and related forms of advocacy. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 483-C_002	LAW_V	483	C	C_002	Moots and Advocacy	W2	Appellate and related forms of advocacy. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 486-001	LAW_V	486		001	Law Review Credit	W1	Editing and business operations by senior editors or the business manager for UBC Law Review, Canadian Journal of Family Law or any other equivalent legal journal based in the Allard School of Law. One time credit only; cannot be repeated. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 486-002	LAW_V	486		002	Law Review Credit	W1-2	Editing and business operations by senior editors or the business manager for UBC Law Review, Canadian Journal of Family Law or any other equivalent legal journal based in the Allard School of Law. One time credit only; cannot be repeated. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 486-003	LAW_V	486		003	Law Review Credit	W2	Editing and business operations by senior editors or the business manager for UBC Law Review, Canadian Journal of Family Law or any other equivalent legal journal based in the Allard School of Law. One time credit only; cannot be repeated. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 486-004	LAW_V	486		004	Law Review Credit	W1-2	Editing and business operations by senior editors or the business manager for UBC Law Review, Canadian Journal of Family Law or any other equivalent legal journal based in the Allard School of Law. One time credit only; cannot be repeated. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 488-001	LAW_V	488		001	Clinical Term	W1	Designed to explore the legal system in relation to disadvantaged members of society. Under supervision, students will act for clients in a range of legal matters and can expect to appear before courts and tribunals. Students will also work with community-based organisations. Credit will be granted for only one of LAW 488, LAW 490, or LAW 491. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 488-002	LAW_V	488		002	Clinical Term	W2	Designed to explore the legal system in relation to disadvantaged members of society. Under supervision, students will act for clients in a range of legal matters and can expect to appear before courts and tribunals. Students will also work with community-based organisations. Credit will be granted for only one of LAW 488, LAW 490, or LAW 491. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 489-001	LAW_V	489		001	Clinical Term: Paper	W1	The graded component of LAW 488. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
LAW_V 489-002	LAW_V	489		002	Clinical Term: Paper	W2	The graded component of LAW 488. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
LAW_V 490-001	LAW_V	490		001	Clinical Criminal Law	W2	Dealing with criminal files under the supervision of experienced lawyers. Credit will be granted for only one of LAW 488, LAW 490, or LAW 491. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
LAW_V 493-A_001	LAW_V	493	A	A_001	Directed Research	W1	Enrolment restricted. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 493-A_002	LAW_V	493	A	A_002	Directed Research	W2	Enrolment restricted. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged



LAW_V 501-L_001	LAW_V	501	L	L_001	Directed Research	W2	Students will be able to undertake advanced research into a topic approved by a faculty member, under the supervision of and in consultation with, that faculty member. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 501-M_001	LAW_V	501	M	M_001	Directed Research	W1	Students will be able to undertake advanced research into a topic approved by a faculty member, under the supervision of and in consultation with, that faculty member. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 501-M_002	LAW_V	501	M	M_002	Directed Research	W2	Students will be able to undertake advanced research into a topic approved by a faculty member, under the supervision of and in consultation with, that faculty member. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 501-N_001	LAW_V	501	N	N_001	Directed Research	W1	Students will be able to undertake advanced research into a topic approved by a faculty member, under the supervision of and in consultation with, that faculty member. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 503-E_99A	LAW_V	503	E	E_99A	Tort Law	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 503-E_99C	LAW_V	503	E	E_99C	Tort Law	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 504-A_99A	LAW_V	504	A	A_99A	Property Law	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 504-A_99C	LAW_V	504	A	A_99C	Property Law	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 505-99A	LAW_V	505		99A	Canadian Public Law	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 505-99B	LAW_V	505		99B	Canadian Public Law	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 505-99C	LAW_V	505		99C	Canadian Public Law	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 506-001	LAW_V	506		001	Taxation	W1	Law and practice of income and capital gains taxes. Credit will be granted for only one of LAW 506 or LAW 407. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:30 p.m.
LAW_V 506-002	LAW_V	506		002	Taxation	W2	Law and practice of income and capital gains taxes. Credit will be granted for only one of LAW 506 or LAW 407. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:30 p.m.
LAW_V 507-001	LAW_V	507		001	Evidence	W2	The admissibility and use of evidence in litigation. Credit will be granted for only one of LAW 507 or LAW 476. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
LAW_V 507-002	LAW_V	507		002	Evidence	W1	The admissibility and use of evidence in litigation. Credit will be granted for only one of LAW 507 or LAW 476. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.
LAW_V 508-D_001	LAW_V	508	D	D_001	Business Organizations	W1	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 508 or LAW 459. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
LAW_V 508-D_002	LAW_V	508	D	D_002	Business Organizations	W1	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 508 or LAW 459. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 5:30 p.m.
LAW_V 508-D_003	LAW_V	508	D	D_003	Business Organizations	W2	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 508 or LAW 459. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:30 p.m.
LAW_V 508-D_004	LAW_V	508	D	D_004	Business Organizations	W1	A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will be granted for only one of LAW 508 or LAW 459. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 8:00 p.m.
LAW_V 509-001	LAW_V	509		001	Administrative Law	W1	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 11:00 a.m.
LAW_V 509-002	LAW_V	509		002	Administrative Law	W2	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:30 p.m.
LAW_V 509-003	LAW_V	509		003	Administrative Law	W2	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

LAW_V 509-004	LAW_V	509	004	Administrative Law	W1	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 4:00 p.m.	
LAW_V 509-005	LAW_V	509	005	Administrative Law	W2	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	10:30 a.m. - 12:30 p.m.	
LAW_V 509-99A	LAW_V	509	99A	Administrative Law	W1	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
LAW_V 509-99C	LAW_V	509	99C	Administrative Law	W2	Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and subordinate legislation, remedies, and administrative processes. Credit will be granted for only one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
LAW_V 511-D_001	LAW_V	511	D	D_001	International Criminal Law	W1	Analysis of topics such as jurisdiction, immunity from prosecution, mutual assistance in penal matters, recognition and enforcement of foreign penal laws, and international police cooperation; examination of selected offences such as war crimes, crimes against humanity, genocide, terrorism, illicit drug trafficking, and torture. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
LAW_V 515-99A	LAW_V	515	99A	Canadian Private Law: Contractual Obligations and Remedies	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
LAW_V 515-99C	LAW_V	515	99C	Canadian Private Law: Contractual Obligations and Remedies	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
LAW_V 519-001	LAW_V	519	001	Individual Employment Law	W2	Legal aspects of employment relationships other than those arising by collective bargaining. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 519 or LAW 419. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.	
LAW_V 523-C_001	LAW_V	523	C	C_001	Topics in Intellectual Property - Lecture	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 523 or LAW 423. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LAW_V 523-C_002	LAW_V	523	C	C_002	Topics in Intellectual Property - Lecture	W2	Not offered each year, consult Faculty. Credit will only be granted for one of LAW 523 or LAW 423. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
LAW_V 524-D_001	LAW_V	524	D	D_001	Methodologies in Law and Policy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 525-A_001	LAW_V	525	A	A_001	Canadian Criminal Law and Procedure	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	6:00 p.m. - 8:30 p.m.
LAW_V 525-A_99A	LAW_V	525	A	A_99A	Canadian Criminal Law and Procedure	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 525-A_99C	LAW_V	525	A	A_99C	Canadian Criminal Law and Procedure	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 530-001	LAW_V	530	001	Advanced Legal Research and Writing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	
LAW_V 537-001	LAW_V	537	001	Commercial Transactions	W2	The law of sale of goods, bills of exchange, promissory notes, and cheques. Credit will only be granted for one of LAW 537 or LAW 437. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.	
LAW_V 538-001	LAW_V	538	001	Secured Transactions	W2	The law governing the creation, perfection and enforcement of security interests in personal property. Credit will only be granted for one of LAW 538 or LAW 438. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
LAW_V 538-002	LAW_V	538	002	Secured Transactions	W1	The law governing the creation, perfection and enforcement of security interests in personal property. Credit will only be granted for one of LAW 538 or LAW 438. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.	
LAW_V 540-001	LAW_V	540	001	Insurance Law	W1	The general legal principles of life, automobile, fire and other types of insurance; the regulation of the insurance industry. Credit will only be granted for one of Law 540 or Law 440. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.	
LAW_V 543-C_002	LAW_V	543	C	C_002	Topics in Public Law	W1	Credit will only be granted for one of LAW 543 or LAW 343. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
LAW_V 545-C_001	LAW_V	545	C	C_001	Topics in Taxation - Seminar	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.

LAW_V 548-001	LAW_V	548	001	Sports Law	W1	Legal issues relating to the sports industry and those who participate in it. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 548 or LAW 448. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LAW_V 549-001	LAW_V	549	001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LAW_V 549-002	LAW_V	549	002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LAW_V 549-003	LAW_V	549	003	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LAW_V 550-001	LAW_V	550	001	Taxation of Corporate Reorganizations	W2	Survey of statutory and judicial rules governing the taxation of corporate reorganizations. Credit will be granted for only one of LAW 414 or LAW 550. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
LAW_V 551-001	LAW_V	551	001	Trusts	W2	History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will only be granted for one of LAW 551 or LAW 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.	
LAW_V 551-002	LAW_V	551	002	Trusts	W1	History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will only be granted for one of LAW 551 or LAW 451. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.	
LAW_V 559-D_001	LAW_V	559	D	D_001	Family Law	W1	The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 359 or LAW 559. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
LAW_V 559-D_002	LAW_V	559	D	D_002	Family Law	W2	The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 359 or LAW 559. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:30 p.m.
LAW_V 562-001	LAW_V	562	001	Taxation of Corporations and Shareholders	W1	Survey of statutory provisions and judicial decisions governing the taxation of corporations and shareholders. Credit will be granted for only one of LAW 408 or LAW 562. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
LAW_V 564-001	LAW_V	564	001	Taxation of Trusts and Estates	W2	Not offered each year, consult Faculty. Credit will be granted for only one of LAW 412 or LAW 564. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:30 p.m. - 8:30 p.m.	
LAW_V 565-001	LAW_V	565	001	International Taxation	W2	The tax aspects of international transactions. Credit will be granted for only one of LAW 410 or LAW 565. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
LAW_V 566-001	LAW_V	566	001	Tax Policy	W1	The policies underlying the creation and implementation of tax laws. Credit will be granted for only one of LAW 411 or LAW 566. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LAW_V 567-001	LAW_V	567	001	Tax Administration and Dispute Resolution	W1	Not offered each year, consult Faculty. Credit will be granted for only one of LAW 413 or LAW 567. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:30 p.m. - 8:30 p.m.	
LAW_V 568-C_001	LAW_V	568	C	C_001	Topics in Taxation - Lecture	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 568-C_002	LAW_V	568	C	C_002	Topics in Taxation - Lecture	W1	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 569-C_001	LAW_V	569	C	C_001	Topics in International Taxation	W2	Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LAW_V 570-C_001	LAW_V	570	C	C_001	Intellectual Property	W1	Copyright, patents, trade marks, industrial design, the protection of computer software, and torts such as passing-off and breach of confidence. Credit will only be granted for one of LAW 570 or LAW 422. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LAW_V 570-C_002	LAW_V	570	C	C_002	Intellectual Property	W2	Copyright, patents, trade marks, industrial design, the protection of computer software, and torts such as passing-off and breach of confidence. Credit will only be granted for one of LAW 570 or LAW 422. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
LAW_V 571-001	LAW_V	571	001	Communications Law	W1	Selected legal issues relating to the communications industries and their regulation. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 571 or LAW 424. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LAW_V 572-001	LAW_V	572	001	Cyberspace Law	W2	Legal issues arising from the development of the Internet and cyberspace. Credit will only be granted for one of LAW 572 or LAW 425. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
LAW_V 574-001	LAW_V	574	001	Succession	W2	The law of wills and intestate succession, variation of wills, principles of probate and administration of estates. Credit will only be granted for one of LAW 452 or LAW 574. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.	
LAW_V 576-001	LAW_V	576	001	Securities Regulation	W1	The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 576 or LAW 463. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	

LAW_V 576-002	LAW_V	576	002	Securities Regulation	W2	The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 576 or LAW 463. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LAW_V 577-001	LAW_V	577	001	Immigration Law	W2	Admission of immigrants into Canada; refugee protection; practice and procedure before immigration tribunals and the courts. Credit will only be granted for one of LAW 577 or LAW 377. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
LAW_V 578-C_001	LAW_V	578	C_001	Refugee Law	W2	International and Canadian refugee law; the Refugee Convention and its implementation in Canada; the practice of refugee law in Canadian courts and tribunals. Course content does not duplicate Law 377. Credit will only be given to one of LAW 578 or LAW 378. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LAW_V 587-C_001	LAW_V	587	C_001	Environmental Law	W2	A foundation course dealing with the regulatory and policy framework for the protection of the environment in Canada, such as pollution control and biodiversity conservation. Credit will only be granted for one of LAW 587 or LAW 387. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LAW_V 588-001	LAW_V	588	001	Ethics and Professionalism	W2	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LAW_V 588-002	LAW_V	588	002	Ethics and Professionalism	W2	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
LAW_V 588-003	LAW_V	588	003	Ethics and Professionalism	W1	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LAW_V 588-004	LAW_V	588	004	Ethics and Professionalism	W1	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
LAW_V 588-005	LAW_V	588	005	Ethics and Professionalism	W1	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LAW_V 588-006	LAW_V	588	006	Ethics and Professionalism	W1	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 3:00 p.m.
LAW_V 588-007	LAW_V	588	007	Ethics and Professionalism	W2	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LAW_V 588-008	LAW_V	588	008	Ethics and Professionalism	W2	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LAW_V 588-99A	LAW_V	588	99A	Ethics and Professionalism	W1	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 588-99C	LAW_V	588	99C	Ethics and Professionalism	W2	The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and cases, and the roles of lawyers, the legal profession and the legal system including their role in securing access to justice. Credit will be granted for only one of LAW 588 or LAW 468. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LAW_V 590-001	LAW_V	590	001	Civil Procedure	W1	Problems in the conduct of civil litigation including: ethical considerations; substantive problems such as notice, pleading, and discovery; and selected procedural problems. Credit will only be granted for one of LAW 590 or LAW 469. This course is not eligible for Credit/D/Fail grading. [2-0] or [3-0]	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
LAW_V 590-002	LAW_V	590	002	Civil Procedure	W2	Problems in the conduct of civil litigation including: ethical considerations; substantive problems such as notice, pleading, and discovery; and selected procedural problems. Credit will only be granted for one of LAW 590 or LAW 469. This course is not eligible for Credit/D/Fail grading. [2-0] or [3-0]	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.
LAW_V 590-003	LAW_V	590	003	Civil Procedure	W2	Problems in the conduct of civil litigation including: ethical considerations; substantive problems such as notice, pleading, and discovery; and selected procedural problems. Credit will only be granted for one of LAW 590 or LAW 469. This course is not eligible for Credit/D/Fail grading. [2-0] or [3-0]	In Person Learning	Mon	8:30 a.m. - 11:30 a.m.
LAW_V 592-001	LAW_V	592	001	Conflict of Laws	W1	A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Credit will only be granted to one of Law 325 or LAW 592. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
LAW_V 599-001	LAW_V	599	001	Creditors' Remedies	W2	Remedies of an unsecured creditor; fraudulent conveyances and preferences; builders' liens; bankruptcy. Credit will only be granted for one of LAW 599 or LAW 443. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
LAW_V 610-C_001	LAW_V	610	C_001	Doctoral Seminar I: Issues in Legal Theory	W1	Including law and feminism, Marxism, post-modernism, social theory, law and the state; legal liberalism and its critics, and other jurisprudential discourses. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.

LAW_V 611-C-001	LAW_V	611	C	C_001	Doctoral Seminar II: Comparative and Interdisciplinary Perspectives on Legal Theory	W2	Applicability of legal concepts in different cultures and societies, and the consequences for the form and structure of law. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LAW_V 649-001	LAW_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
LAW_V 649-101	LAW_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
LAW_V 649-201	LAW_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
LFS_V 100-001	LFS_V	100		001	Introduction to Land, Food and Community	W1	Orientation to the programs, learning environment and core values of the Faculty of Land and Food Systems; career programs; survey of professional opportunities and requirements. [1-0-0]	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
LFS_V 100-002	LFS_V	100		002	Introduction to Land, Food and Community	W1	Orientation to the programs, learning environment and core values of the Faculty of Land and Food Systems; career programs; survey of professional opportunities and requirements. [1-0-0]	Online Learning	Wed	9:00 a.m. - 10:00 a.m.
LFS_V 100-003	LFS_V	100		003	Introduction to Land, Food and Community	W1	Orientation to the programs, learning environment and core values of the Faculty of Land and Food Systems; career programs; survey of professional opportunities and requirements. [1-0-0]	Online Learning	Fri	12:00 p.m. - 1:00 p.m.
LFS_V 100-XMT	LFS_V	100		XMT	Introduction to Land, Food and Community	W1	Orientation to the programs, learning environment and core values of the Faculty of Land and Food Systems; career programs; survey of professional opportunities and requirements. [1-0-0]	Online Learning	Arranged	Arranged
LFS_V 101-201	LFS_V	101		201	Principles of Microeconomics with Applications to Land and Food Systems	W2	Microeconomic principles focused on private and social decision making related to the use of land, especially in agriculture, forestry, and conservation. Restricted to Faculty of Land and Food Systems students in Land One Option. Credit will be granted for only one of FRST 101, LFS 101, ECON 101, or ECON 310 This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 101, ECON 101	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
LFS_V 101-001	LFS_V	101		D01	Principles of Microeconomics with Applications to Land and Food Systems	W2	Microeconomic principles focused on private and social decision making related to the use of land, especially in agriculture, forestry, and conservation. Restricted to Faculty of Land and Food Systems students in Land One Option. Credit will be granted for only one of FRST 101, LFS 101, ECON 101, or ECON 310 This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 101, ECON 101	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
LFS_V 110-101	LFS_V	110		101	Land One: First-year Integrative Seminar	W1-2	Current issues and cases in Forestry and Land and Food Systems are examined with a focus on integration of first-year subjects and exposure to both Indigenous and Western perspectives. Restricted to Faculty of Land and Food Systems students in the Land One option. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 110	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
LFS_V 110-101	LFS_V	110		L01	Land One: First-year Integrative Seminar	W1-2	Current issues and cases in Forestry and Land and Food Systems are examined with a focus on integration of first-year subjects and exposure to both Indigenous and Western perspectives. Restricted to Faculty of Land and Food Systems students in the Land One option. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 110	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
LFS_V 110-T01	LFS_V	110		T01	Land One: First-year Integrative Seminar	W1-2	Current issues and cases in Forestry and Land and Food Systems are examined with a focus on integration of first-year subjects and exposure to both Indigenous and Western perspectives. Restricted to Faculty of Land and Food Systems students in the Land One option. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 110	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LFS_V 150-001	LFS_V	150		001	Scholarly Writing and Argumentation in Land and Food Systems	W1	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Hybrid Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
LFS_V 150-002	LFS_V	150		002	Scholarly Writing and Argumentation in Land and Food Systems	W2	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Hybrid Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
LFS_V 150-003	LFS_V	150		003	Scholarly Writing and Argumentation in Land and Food Systems	W1	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Hybrid Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
LFS_V 150-004	LFS_V	150		004	Scholarly Writing and Argumentation in Land and Food Systems	W2	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LFS_V 150-005	LFS_V	150		005	Scholarly Writing and Argumentation in Land and Food Systems	W1	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Online Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LFS_V 150-006	LFS_V	150		006	Scholarly Writing and Argumentation in Land and Food Systems	W1	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Hybrid Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.

LFS_V 150-007	LFS_V	150	007	Scholarly Writing and Argumentation in Land and Food Systems	W2	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LFS_V 150-008	LFS_V	150	008	Scholarly Writing and Argumentation in Land and Food Systems	W2	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	Hybrid Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
LFS_V 150-201	LFS_V	150	201	Scholarly Writing and Argumentation in Land and Food Systems	W2	Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Enrolment limited to LFS students with first year status. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, NRES 150.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
LFS_V 250-001	LFS_V	250	001	Land, Food and Community I: Introduction to Food Systems and Sustainability	W1-2	Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.	Online Learning	Tue	12:30 p.m. - 2:00 p.m.
LFS_V 250-002	LFS_V	250	002	Land, Food and Community I: Introduction to Food Systems and Sustainability	W1-2	Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.	Online Learning	Tue	12:30 p.m. - 2:00 p.m.
LFS_V 250-003	LFS_V	250	003	Land, Food and Community I: Introduction to Food Systems and Sustainability	W1-2	Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.	Online Learning	Tue	12:30 p.m. - 2:00 p.m.
LFS_V 250-D01	LFS_V	250	D01	Land, Food and Community I: Introduction to Food Systems and Sustainability	W1-2	Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
LFS_V 250-D02	LFS_V	250	D02	Land, Food and Community I: Introduction to Food Systems and Sustainability	W1-2	Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.	Online Learning	Tue	2:00 p.m. - 3:30 p.m.
LFS_V 250-D03	LFS_V	250	D03	Land, Food and Community I: Introduction to Food Systems and Sustainability	W1-2	Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.	Online Learning	Tue	2:00 p.m. - 3:30 p.m.
LFS_V 250-LX1	LFS_V	250	LX1	Land, Food and Community I: Introduction to Food Systems and Sustainability	W1-2	Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.	In Person Learning	Arranged	Arranged
LFS_V 252-002	LFS_V	252	002	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LFS_V 252-003	LFS_V	252	003	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LFS_V 252-D01	LFS_V	252	D01	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Mon	3:00 p.m. - 4:00 p.m.
LFS_V 252-D02	LFS_V	252	D02	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Mon	4:00 p.m. - 5:00 p.m.
LFS_V 252-D03	LFS_V	252	D03	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Mon	5:00 p.m. - 6:00 p.m.
LFS_V 252-D04	LFS_V	252	D04	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Wed	4:00 p.m. - 5:00 p.m.
LFS_V 252-D05	LFS_V	252	D05	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Wed	5:00 p.m. - 6:00 p.m.
LFS_V 252-D06	LFS_V	252	D06	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Thu	4:00 p.m. - 5:00 p.m.
LFS_V 252-D07	LFS_V	252	D07	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Thu	5:00 p.m. - 6:00 p.m.
LFS_V 252-D08	LFS_V	252	D08	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Fri	3:00 p.m. - 4:00 p.m.
LFS_V 252-D09	LFS_V	252	D09	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Fri	4:00 p.m. - 5:00 p.m.

LFS_V 252-D10	LFS_V	252		D10	Land, Food, and Community: Quantitative Data Analysis	W2	Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	Hybrid Learning	Fri	5:00 p.m. - 6:00 p.m.
LFS_V 302-A_001	LFS_V	302	A	A_001	International Field Studies	W1	Field studies carried out abroad under staff direction. Participating students are assessed a fee.	In Person Learning	Arranged	Arranged
LFS_V 302-A_002	LFS_V	302	A	A_002	International Field Studies	W2	Field studies carried out abroad under staff direction. Participating students are assessed a fee.	In Person Learning	Arranged	Arranged
LFS_V 302-B_001	LFS_V	302	B	B_001	International Field Studies	W1-2	Field studies carried out abroad under staff direction. Participating students are assessed a fee.	In Person Learning	Arranged	Arranged
LFS_V 350-001	LFS_V	350		001	Land, Food, and Community II: Principles and Practice of Community Food Security	W1	Project-based application of the principles and processes of community food security. Emphasis on developing skills required to address economic, ecological, social, and technological components of managed landscapes, agri-food systems, and communities comprising the land, food, nutrition and health continuum. Prerequisite: LFS 250.	In Person Learning	Thu	12:30 p.m. - 3:30 p.m.
LFS_V 350-002	LFS_V	350		002	Land, Food, and Community II: Principles and Practice of Community Food Security	W2	Project-based application of the principles and processes of community food security. Emphasis on developing skills required to address economic, ecological, social, and technological components of managed landscapes, agri-food systems, and communities comprising the land, food, nutrition and health continuum. Prerequisite: LFS 250.	In Person Learning	Thu	12:30 p.m. - 3:30 p.m.
LFS_V 398-001	LFS_V	398		001	Co-operative Work Placement I	W1	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Must attend all Co-op pre-employment workshops.	In Person Learning	Arranged	Arranged
LFS_V 398-002	LFS_V	398		002	Co-operative Work Placement I	W2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Must attend all Co-op pre-employment workshops.	In Person Learning	Arranged	Arranged
LFS_V 398-003	LFS_V	398		003	Co-operative Work Placement I	W1-2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Must attend all Co-op pre-employment workshops.	In Person Learning	Arranged	Arranged
LFS_V 399-001	LFS_V	399		001	Co-operative Work Placement II	W1	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 398.	In Person Learning	Arranged	Arranged
LFS_V 399-002	LFS_V	399		002	Co-operative Work Placement II	W2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 398.	In Person Learning	Arranged	Arranged
LFS_V 399-003	LFS_V	399		003	Co-operative Work Placement II	W1-2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 398.	In Person Learning	Arranged	Arranged
LFS_V 400-001	LFS_V	400		001	Audio Storytelling	W2	Adopts a journalistic framework to communicate powerful stories and present academic content in new ways through the use of audio and podcasting technology. Prerequisite: Third-year standing or higher.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
LFS_V 400-L01	LFS_V	400		L01	Audio Storytelling	W2	Adopts a journalistic framework to communicate powerful stories and present academic content in new ways through the use of audio and podcasting technology. Prerequisite: Third-year standing or higher.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LFS_V 402-001	LFS_V	402		001	Living Language: Science and Society	W1	Multidisciplinary course in which students, individually and in groups, examine, integrate and apply subject-specific knowledge through the lens of language and the framework of the language sciences, with a focus on themes of real-world importance. Prerequisite: Fourth-year standing or permission of the instructor. Equivalency: APSC402, ASTU402, FRST402, LLED402, PHAR402	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
LFS_V 450-001	LFS_V	450		001	Land, Food, and Community III: Leadership in Campus Food System Sustainability	W2	Design, analysis, recommendation or implementation of solutions in response to a food sustainability issue faced by community partners. Emphasis is on professional communication, leadership development, project management and decision-making skills.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LFS_V 496-A_001	LFS_V	496	A	A_001	Career Development Practicum	W1	Practical application of degree program learning appropriate to students' career goals. Enrolment subject to competition and availability of practicum placements.	In Person Learning	Arranged	Arranged
LFS_V 496-A_002	LFS_V	496	A	A_002	Career Development Practicum	W2	Practical application of degree program learning appropriate to students' career goals. Enrolment subject to competition and availability of practicum placements.	In Person Learning	Arranged	Arranged
LFS_V 496-B_001	LFS_V	496	B	B_001	Career Development Practicum	W1	Practical application of degree program learning appropriate to students' career goals. Enrolment subject to competition and availability of practicum placements.	In Person Learning	Arranged	Arranged
LFS_V 496-B_002	LFS_V	496	B	B_002	Career Development Practicum	W2	Practical application of degree program learning appropriate to students' career goals. Enrolment subject to competition and availability of practicum placements.	In Person Learning	Arranged	Arranged
LFS_V 496-B_003	LFS_V	496	B	B_003	Career Development Practicum	W1-2	Practical application of degree program learning appropriate to students' career goals. Enrolment subject to competition and availability of practicum placements.	In Person Learning	Arranged	Arranged
LFS_V 498-001	LFS_V	498		001	Co-operative Work Placement III	W1	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 399.	In Person Learning	Arranged	Arranged

LFS_V 498-002	LFS_V	498		002	Co-operative Work Placement III	W2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 399.	In Person Learning	Arranged	Arranged
LFS_V 498-003	LFS_V	498		003	Co-operative Work Placement III	W1-2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 399.	In Person Learning	Arranged	Arranged
LFS_V 499-001	LFS_V	499		001	Co-operative Work Placement IV	W1	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 498.	In Person Learning	Arranged	Arranged
LFS_V 499-002	LFS_V	499		002	Co-operative Work Placement IV	W2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 498.	In Person Learning	Arranged	Arranged
LFS_V 499-003	LFS_V	499		003	Co-operative Work Placement IV	W1-2	Work experience in relevant private and/or public sector settings. Work terms are normally four months long. Restricted to students admitted to the Co-op Program in Land and Food Systems. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 498.	In Person Learning	Arranged	Arranged
LFS_V 500-003	LFS_V	500		003	Graduate Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Thu	4:00 p.m. - 5:30 p.m.
LFS_V 530-A_001	LFS_V	530	A	A_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LFS_V 530-A_002	LFS_V	530	A	A_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LFS_V 530-A_003	LFS_V	530	A	A_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LFS_V 530-B_003	LFS_V	530	B	B_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LFS_V 549-001	LFS_V	549		001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LFS_V 549-002	LFS_V	549		002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LFS_V 549-003	LFS_V	549		003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LFS_V 649-001	LFS_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
LFS_V 649-002	LFS_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
LFS_V 649-003	LFS_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
LIBE_V 461-63A	LIBE_V	461		63A	Administration of the School Library Resource Centre	W1	The role, philosophy, and management of school library resource centres in elementary and secondary schools. [3-0-0]	Online Learning	Arranged	Arranged
LIBE_V 463-63C	LIBE_V	463		63C	Selection of Learning Resources I	W2	[3-0-0]	Online Learning	Arranged	Arranged
LIBE_V 465-63A	LIBE_V	465		63A	Organization of Learning Resources	W1	[3-0-0]	Online Learning	Arranged	Arranged
LIBE_V 467-63C	LIBE_V	467		63C	Information Services I	W2	[3-0-0]	Online Learning	Arranged	Arranged
LIBE_V 477-B_63A	LIBE_V	477	B	B_63A	Special Topics in Teacher Librarianship	W1	In-depth study of selected topics in library education. [3-0-0]	Online Learning	Arranged	Arranged
LIBR_V 504-001	LIBR_V	504		001	Management of Information Organizations	W1	Credit will only be granted for one of LIBR 504 or ARST 570. This course is not eligible for Credit/D/Fail grading. Equivalency: ARST570	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
LIBR_V 504-002	LIBR_V	504		002	Management of Information Organizations	W2	Credit will only be granted for one of LIBR 504 or ARST 570. This course is not eligible for Credit/D/Fail grading. Equivalency: ARST570	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.

LIBR_V 506-001	LIBR_V	506	001	Human-Information Interaction	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
LIBR_V 507-002	LIBR_V	507	002	Methods of Research and Evaluation in Information Organizations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
LIBR_V 508-001	LIBR_V	508	001	Information Practices in Contemporary Society	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LIBR_V 509-001	LIBR_V	509	001	Foundations of Resource Description and Knowledge Organization	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
LIBR_V 511-001	LIBR_V	511	001	Cataloguing and Classification	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
LIBR_V 514-J_002	LIBR_V	514	J	J_002	Topics in the Bibliographic Control of Information	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LIBR_V 514-K_002	LIBR_V	514	K	K_002	Topics in the Bibliographic Control of Information	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LIBR_V 514-L_001	LIBR_V	514	L	L_001	Topics in the Bibliographic Control of Information	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
LIBR_V 516-001	LIBR_V	516	001	Information Asset Management	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	6:00 p.m. - 9:00 p.m.	
LIBR_V 520-002	LIBR_V	520	002	Survey of Literature and Other Materials for Children	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
LIBR_V 526-002	LIBR_V	526	002	Literature and Other Materials for Young Adults	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
LIBR_V 527-001	LIBR_V	527	001	Services for Children	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
LIBR_V 533-002	LIBR_V	533	002	Legal Information Sources and Services	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.	
LIBR_V 534-001	LIBR_V	534	001	Health Information Sources and Services	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
LIBR_V 535-001	LIBR_V	535	001	Instructional Role of the Librarian	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
LIBR_V 539-K_002	LIBR_V	539	K	K_002	Specialized Materials	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LIBR_V 541-001	LIBR_V	541	001	New Media for Children and Young Adults	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
LIBR_V 553-001	LIBR_V	553	001	Understanding Information Users in Diverse Environments	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
LIBR_V 554-001	LIBR_V	554	001	Database Design	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
LIBR_V 554-002	LIBR_V	554	002	Database Design	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
LIBR_V 555-001	LIBR_V	555	001	Information Design I - Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
LIBR_V 556-001	LIBR_V	556	001	Information Design II - Documents	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
LIBR_V 557-001	LIBR_V	557	001	Information Retrieval Systems: Concepts and Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	

LIBR_V 559-C_001	LIBR_V	559	C	C_001	Topics in Computer-Based Information Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LIBR_V 559-L_002	LIBR_V	559	L	L_002	Topics in Computer-Based Information Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
LIBR_V 559-S_002	LIBR_V	559	S	S_002	Topics in Computer-Based Information Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
LIBR_V 559-T_002	LIBR_V	559	T	T_002	Topics in Computer-Based Information Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
LIBR_V 561-002	LIBR_V	561		002	Information Policy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
LIBR_V 564-002	LIBR_V	564		002	Information Practice and Protocol in Support of Indigenous Initiatives	W2	Credit will only be granted for one of LIBR 564 and ARST 585.This course is not eligible for Credit/D/Fail grading. Equivalency: ARST 585	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LIBR_V 565-002	LIBR_V	565		002	Progressive and Radical Information Work	W2		In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LIBR_V 569-J_002	LIBR_V	569	J	J_002	Current Issues and Trends in Library Services and Information Science	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
LIBR_V 569-S_001	LIBR_V	569	S	S_001	Current Issues and Trends in Library Services and Information Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
LIBR_V 570-002	LIBR_V	570		002	Marketing in Information Organizations	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	9:00 a.m. - 12:00 p.m.
LIBR_V 574-001	LIBR_V	574		001	Project Management in Information Organizations	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LIBR_V 574-002	LIBR_V	574		002	Project Management in Information Organizations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
LIBR_V 575-002	LIBR_V	575		002	Academic Libraries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
LIBR_V 576-002	LIBR_V	576		002	Public Libraries	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LIBR_V 579-D_002	LIBR_V	579	D	D_002	Topics in the Management of Libraries and Archives	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LIBR_V 580-001	LIBR_V	580		001	Collection Management	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
LIBR_V 580-002	LIBR_V	580		002	Collection Management	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LIBR_V 582-001	LIBR_V	582		001	Digital Image and Text Collections	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
LIBR_V 587-001	LIBR_V	587		001	Preservation	W1	Credit will only be granted for one of LIBR 587 or ARST 587.This course is not eligible for Credit/D/Fail grading. Equivalency: ARST587	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
LIBR_V 587-002	LIBR_V	587		002	Preservation	W2	Credit will only be granted for one of LIBR 587 or ARST 587.This course is not eligible for Credit/D/Fail grading. Equivalency: ARST587	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
LIBR_V 592-001	LIBR_V	592		001	Directed Research Project	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 592-002	LIBR_V	592		002	Directed Research Project	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 592-003	LIBR_V	592		003	Directed Research Project	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

LIBR_V 594-001	LIBR_V	594	001	Directed Study		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 594-002	LIBR_V	594	002	Directed Study		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 594-003	LIBR_V	594	003	Directed Study		W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 595-001	LIBR_V	595	001	Practicum		W1		In Person Learning	Arranged	Arranged
LIBR_V 595-002	LIBR_V	595	002	Practicum		W2		In Person Learning	Arranged	Arranged
LIBR_V 596-001	LIBR_V	596	001	Professional Experience		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 596-002	LIBR_V	596	002	Professional Experience		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 596-003	LIBR_V	596	003	Professional Experience		W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 597-001	LIBR_V	597	001	Research Collaboration		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 597-002	LIBR_V	597	002	Research Collaboration		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 597-003	LIBR_V	597	003	Research Collaboration		W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 598-002	LIBR_V	598	002	Program Synthesis Portfolio		W2	For students enrolled in the M.L.I.S. program with a minimum of 36 credits. For students enrolled in the M.A.S./M.L.I.S. dual program with a minimum of 69 credits. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LIBR_V 599-A_001	LIBR_V	599	A	A_001	Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 599-A_002	LIBR_V	599	A	A_002	Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 599-A_003	LIBR_V	599	A	A_003	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 599-B_001	LIBR_V	599	B	B_001	Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LIBR_V 599-B_005	LIBR_V	599	B	B_005	Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LING_V 100-001	LING_V	100	001	Introduction to Language and Linguistics		W1	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
LING_V 100-002	LING_V	100	002	Introduction to Language and Linguistics		W2	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
LING_V 100-003	LING_V	100	003	Introduction to Language and Linguistics		W1	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
LING_V 100-004	LING_V	100	004	Introduction to Language and Linguistics		W2	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Mon Wed	12:00 p.m. - 1:00 p.m.



LING_V 100-T4C	LING_V	100	T4C	Introduction to Language and Linguistics	W1	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 100-T4D	LING_V	100	T4D	Introduction to Language and Linguistics	W1	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LING_V 100-T4E	LING_V	100	T4E	Introduction to Language and Linguistics	W1	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 100-T51	LING_V	100	T51	Introduction to Language and Linguistics	W2	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LING_V 100-T52	LING_V	100	T52	Introduction to Language and Linguistics	W2	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 100-T53	LING_V	100	T53	Introduction to Language and Linguistics	W1	Study of language as a universal and uniquely human cognitive system: What universals do all languages share and how do languages differ? An investigation of sound systems, word-building, grammatical principles, language change, dialect variation, language acquisition, neurolinguistics. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
LING_V 101-001	LING_V	101	001	Languages of the World	W1	A survey of the linguistic map of the world, examining how languages are genetically classified and how different languages evolve. Principles underlying different writing systems and the decipherment of historical documents. Issues of languages in contact, minority language endangerment, language death and the role of English as a world language. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	Online Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
LING_V 101-002	LING_V	101	002	Languages of the World	W2	A survey of the linguistic map of the world, examining how languages are genetically classified and how different languages evolve. Principles underlying different writing systems and the decipherment of historical documents. Issues of languages in contact, minority language endangerment, language death and the role of English as a world language. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
LING_V 101-003	LING_V	101	003	Languages of the World	W1	A survey of the linguistic map of the world, examining how languages are genetically classified and how different languages evolve. Principles underlying different writing systems and the decipherment of historical documents. Issues of languages in contact, minority language endangerment, language death and the role of English as a world language. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
LING_V 101-004	LING_V	101	004	Languages of the World	W2	A survey of the linguistic map of the world, examining how languages are genetically classified and how different languages evolve. Principles underlying different writing systems and the decipherment of historical documents. Issues of languages in contact, minority language endangerment, language death and the role of English as a world language. Recommended but not required for an honours, major, or minor in linguistics or speech sciences.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
LING_V 140-002	LING_V	140	002	Challenging Language Myths	W1	Critical consideration of a broad range of commonly held beliefs about language and its relation to the brain and cognition, learning, society, change and evolution. Note: This is an elective course that does not fulfill writing requirements in any faculty or the literature requirement in the Faculty of Arts. Credit will be granted for only one of LING 140 or ENGL 140. This course is not eligible for Credit/D/Fall grading. Equivalency: ENGL 140	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LING_V 142-001	LING_V	142	001	Language and Technology	W1	Fundamentals of how computational linguistics makes possible automated speech with Siri, automated translation with Google Translate, and related internet and social-media technologies. Issues in ethics and language-data ownership. Emphasis on applications relating to Arts disciplines. No computing background required.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
LING_V 170-002	LING_V	170	002	Introduction to How to Learn a Language	W2	Skills and strategies for second language acquisition, through the foundations of pronunciation, vocabulary, grammar, and pragmatics, connected to the practical, social, and personal challenges of language learning.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.
LING_V 200-001	LING_V	200	001	Linguistic Theory and Analysis I	W1	Introduction to phonetics and phonology; training in the identification and production of speech sounds; principles and methods for describing and writing the sound system of a language; phonological theory with reference to selected languages; the interface between phonology and morphology. Analytical practice and seminar discussion.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LING_V 200-L01	LING_V	200	L01	Linguistic Theory and Analysis I	W1	Introduction to phonetics and phonology; training in the identification and production of speech sounds; principles and methods for describing and writing the sound system of a language; phonological theory with reference to selected languages; the interface between phonology and morphology. Analytical practice and seminar discussion.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
LING_V 200-L02	LING_V	200	L02	Linguistic Theory and Analysis I	W1	Introduction to phonetics and phonology; training in the identification and production of speech sounds; principles and methods for describing and writing the sound system of a language; phonological theory with reference to selected languages; the interface between phonology and morphology. Analytical practice and seminar discussion.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LING_V 200-L03	LING_V	200	L03	Linguistic Theory and Analysis I	W1	Introduction to phonetics and phonology; training in the identification and production of speech sounds; principles and methods for describing and writing the sound system of a language; phonological theory with reference to selected languages; the interface between phonology and morphology. Analytical practice and seminar discussion.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 200-L04	LING_V	200	L04	Linguistic Theory and Analysis I	W1	Introduction to phonetics and phonology; training in the identification and production of speech sounds; principles and methods for describing and writing the sound system of a language; phonological theory with reference to selected languages; the interface between phonology and morphology. Analytical practice and seminar discussion.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.

LING_V 200-L05	LING_V	200	L05	Linguistic Theory and Analysis I	W1	Introduction to phonetics and phonology; training in the identification and production of speech sounds; principles and methods for describing and writing the sound system of a language; phonological theory with reference to selected languages; the interface between phonology and morphology. Analytical practice and seminar discussion.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LING_V 200-L06	LING_V	200	L06	Linguistic Theory and Analysis I	W1	Introduction to phonetics and phonology; training in the identification and production of speech sounds; principles and methods for describing and writing the sound system of a language; phonological theory with reference to selected languages; the interface between phonology and morphology. Analytical practice and seminar discussion.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 201-002	LING_V	201	002	Linguistic Theory and Analysis II	W2	Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LING_V 201-L01	LING_V	201	L01	Linguistic Theory and Analysis II	W2	Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 201-L02	LING_V	201	L02	Linguistic Theory and Analysis II	W2	Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 201-L03	LING_V	201	L03	Linguistic Theory and Analysis II	W2	Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LING_V 201-L04	LING_V	201	L04	Linguistic Theory and Analysis II	W2	Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
LING_V 201-L05	LING_V	201	L05	Linguistic Theory and Analysis II	W2	Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LING_V 201-L06	LING_V	201	L06	Linguistic Theory and Analysis II	W2	Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LING_V 209-002	LING_V	209	002	Clinical Topics in Speech, Language, and Hearing Sciences	W2	Introduction to speech and hearing sciences, with emphasis on the clinical perspectives of audiology and speech pathology.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
LING_V 222-001	LING_V	222	001	Language Acquisition	W1	Audition and speech perception, phonological organization, word learning, syntax, and pragmatics.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
LING_V 222-TT1	LING_V	222	TT1	Language Acquisition	W1	Audition and speech perception, phonological organization, word learning, syntax, and pragmatics.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
LING_V 222-TT2	LING_V	222	TT2	Language Acquisition	W1	Audition and speech perception, phonological organization, word learning, syntax, and pragmatics.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
LING_V 222-TT3	LING_V	222	TT3	Language Acquisition	W1	Audition and speech perception, phonological organization, word learning, syntax, and pragmatics.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LING_V 222-TT4	LING_V	222	TT4	Language Acquisition	W1	Audition and speech perception, phonological organization, word learning, syntax, and pragmatics.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LING_V 300-003	LING_V	300	003	Studies in Grammar	W1	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LING_V 300-004	LING_V	300	004	Studies in Grammar	W2	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LING_V 300-T01	LING_V	300	T01	Studies in Grammar	W1	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LING_V 300-T02	LING_V	300	T02	Studies in Grammar	W1	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 300-T03	LING_V	300	T03	Studies in Grammar	W1	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
LING_V 300-T04	LING_V	300	T04	Studies in Grammar	W2	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 300-T05	LING_V	300	T05	Studies in Grammar	W2	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LING_V 300-T06	LING_V	300	T06	Studies in Grammar	W2	Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.

LING_V 308-002	LING_V	308	002	The Languages of Africa	W2	Linguistic survey of the languages of Africa, including typological and historical connections between languages, individual and comparative surveys of sound systems, word structures, sentence structures, semantics, and sociolinguistic properties of a representative selection of languages. Credit will only be granted for one of LING 308 or AFST 308. Equivalency: AFST 308	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
LING_V 311-001	LING_V	311	001	Studies in Phonology	W1	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LING_V 311-002	LING_V	311	002	Studies in Phonology	W2	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LING_V 311-TU1	LING_V	311	TU1	Studies in Phonology	W1	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
LING_V 311-TU2	LING_V	311	TU2	Studies in Phonology	W1	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LING_V 311-TU3	LING_V	311	TU3	Studies in Phonology	W1	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 311-TU4	LING_V	311	TU4	Studies in Phonology	W2	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
LING_V 311-TU5	LING_V	311	TU5	Studies in Phonology	W2	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
LING_V 311-TU6	LING_V	311	TU6	Studies in Phonology	W2	Introduction to phonological analysis and theory, with a strong emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 200.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
LING_V 313-001	LING_V	313	001	Introduction to Linguistic Phonetics and Speech Science	W1	The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: [LING200]	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
LING_V 313-LA1	LING_V	313	LA1	Introduction to Linguistic Phonetics and Speech Science	W1	The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: [LING200]	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
LING_V 313-LA2	LING_V	313	LA2	Introduction to Linguistic Phonetics and Speech Science	W1	The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: [LING200]	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
LING_V 313-LA3	LING_V	313	LA3	Introduction to Linguistic Phonetics and Speech Science	W1	The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: [LING200]	In Person Learning	Mon	5:00 p.m. - 6:00 p.m.
LING_V 313-LA4	LING_V	313	LA4	Introduction to Linguistic Phonetics and Speech Science	W1	The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: [LING200]	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
LING_V 313-LA5	LING_V	313	LA5	Introduction to Linguistic Phonetics and Speech Science	W1	The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: [LING200]	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
LING_V 313-LA6	LING_V	313	LA6	Introduction to Linguistic Phonetics and Speech Science	W1	The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: [LING200]	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
LING_V 314-002	LING_V	314	002	Instrumental Phonetics	W2	Physiological and/or acoustic phonetics. Focus on experimental methods and analysis techniques. Topics may include: source-filter theory; spectral and temporal acoustic analysis, inter-articulator timing and motor coordination. Prerequisite: LING 200. Recommended: LING 313	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
LING_V 315-002	LING_V	315	002	Sociolinguistics	W2	The systematic study of language as a social phenomenon. Credit will be granted for only one of LING 445 or 315. Prerequisite: All of LING 200, LING 201.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
LING_V 319-002	LING_V	319	002	Historical Linguistics	W2	How and why languages change over time, and how languages can be grouped into families based on historical relationships. Methods of comparative and internal reconstruction of phonological, morphological, syntactic, semantic change. Social factors in language change. Not offered every year. Prerequisite: LING 200 and LING 201.	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
LING_V 327-001	LING_V	327	001	Introduction to Semantics	W1	The analysis and theory of linguistic meaning with emphasis on formal techniques for semantic analysis and their application to empirical phenomena in language, including pragmatics. Prerequisite: LING 201.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LING_V 327-T01	LING_V	327	T01	Introduction to Semantics	W1	The analysis and theory of linguistic meaning with emphasis on formal techniques for semantic analysis and their application to empirical phenomena in language, including pragmatics. Prerequisite: LING 201.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
LING_V 327-T02	LING_V	327	T02	Introduction to Semantics	W1	The analysis and theory of linguistic meaning with emphasis on formal techniques for semantic analysis and their application to empirical phenomena in language, including pragmatics. Prerequisite: LING 201.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.

LING_V 327-T03	LING_V	327		T03	Introduction to Semantics	W1	The analysis and theory of linguistic meaning with emphasis on formal techniques for semantic analysis and their application to empirical phenomena in language, including pragmatics. Prerequisite: LING 201.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
LING_V 333-001	LING_V	333		001	Research Methods for Linguistics	W1	Research methods used in linguistics and speech science. Emphasis on scientific reasoning, critical thinking, experimental design, and the ethics and methods of linguistic data-collection. Prerequisite: All of LING 200, LING 201.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
LING_V 342-001	LING_V	342		001	Computational Models of Language	W1	A re-examination of major areas of linguistics from a computational perspective, including popular formalisms and algorithms associated with morphology, syntax, semantics, and discourse. Prerequisite: LING 242 and one of LING 201, ENGL 331 and one of STAT 200, STAT 203, STAT 251, STAT 302, MATH 302, PSYC 218.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
LING_V 345-002	LING_V	345		002	Pragmatics	W2	Selected topics in pragmatics and information structure, including variations in their cross-linguistic expression and the corresponding influence of sentence form on context. Prerequisite: One of LING 201, ENGL 331, PHIL 220, PHIL 222.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
LING_V 410-001	LING_V	410		001	Advanced Phonology	W1	Current issues in phonological theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: LING 311.	In Person Learning	Mon Wed	11:30 a.m. - 1:00 p.m.
LING_V 420-001	LING_V	420		001	Introduction to Linguistics	W1	General background to linguistic studies; the different approaches to the analysis of languages; synchronic and diachronic linguistics; phonetics, phonology, morphology, syntax, and semantics. Not available for credit toward a Major or Honours program in Linguistics.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
LING_V 420-002	LING_V	420		002	Introduction to Linguistics	W2	General background to linguistic studies; the different approaches to the analysis of languages; synchronic and diachronic linguistics; phonetics, phonology, morphology, syntax, and semantics. Not available for credit toward a Major or Honours program in Linguistics.	In Person Learning	Tue	5:30 p.m. - 8:30 p.m.
LING_V 421-001	LING_V	421		001	Advanced Syntax	W1	Current issues in syntactic theory. Prerequisite: LING 300.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LING_V 425-002	LING_V	425		002	Advanced Semantics	W2	Current issues in semantic theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LING 327, PHIL 220, PHIL 222. A basic introduction to syntax is recommended (e.g., LING 100, LING 201, or ENGL 331).	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LING_V 431-001	LING_V	431		001	Field Methods I	W1	Elicitation, transcription, organization, and analysis of linguistic data from a native speaker of a language not commonly studied. Practical experience in the use of fieldwork equipment. Prerequisite: All of LING 300, LING 311.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
LING_V 432-002	LING_V	432		002	Field Methods II	W2	Elicitation, transcription, organization, and analysis of linguistic data from a native speaker of a language not commonly studied. Practical experience in the use of fieldwork equipment. Prerequisite: LING 431.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
LING_V 433-002	LING_V	433		002	Native Languages of the Americas	W2	Survey of the indigenous languages of the Americas. Study of the basis of genetic classification and areal similarities. The structure of representative languages will be presented and contrasted. The present status of American Indian languages will be considered. Note: this course is not necessarily offered every year.	Online Learning	Mon	6:00 p.m. - 9:00 p.m.
LING_V 440-001	LING_V	440		001	Language as a Social Instrument	W2	Language as a tool that shapes and is shaped by technology, media, politics and power relations in society. Considers multiple levels of linguistic structure from a cross-linguistic perspective. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LING 200, LING 201.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
LING_V 447-C_001	LING_V	447	C	C_001	Topics in Linguistics	W1	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Arranged	Arranged
LING_V 447-D_002	LING_V	447	D	D_002	Topics in Linguistics	W2	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Arranged	Arranged
LING_V 447-E_001	LING_V	447	E	E_001	Topics in Linguistics	W1	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Arranged	Arranged
LING_V 447-E_SM1	LING_V	447	E	E_SM1	Topics in Linguistics	W1	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LING_V 447-E_SM2	LING_V	447	E	E_SM2	Topics in Linguistics	W1	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
LING_V 447-F_002	LING_V	447	F	F_002	Topics in Linguistics	W2	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Arranged	Arranged
LING_V 447-F_SM1	LING_V	447	F	F_SM1	Topics in Linguistics	W2	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Mon Wed	11:30 a.m. - 1:00 p.m.
LING_V 447-F_SM2	LING_V	447	F	F_SM2	Topics in Linguistics	W2	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
LING_V 447-F_SM3	LING_V	447	F	F_SM3	Topics in Linguistics	W2	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LING_V 447-S_001	LING_V	447	S	S_001	Topics in Linguistics	W1	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Arranged	Arranged

LING_V 447-T_001	LING_V	447	T	T_001	Topics in Linguistics	W1	A capstone course for Linguistics and Speech Sciences majors, normally taken after three years of study. Individual sections will differ substantially; see online Course List for detailed descriptions and prerequisites. May be repeated for credit when content is different.	In Person Learning	Arranged	Arranged
LING_V 448-A_001	LING_V	448	A	A_001	Directed Studies	W1	Supervisor and topic chosen by mutual agreement between student and Linguistics faculty member. Department Advisor approval is required.	In Person Learning	Arranged	Arranged
LING_V 448-A_002	LING_V	448	A	A_002	Directed Studies	W2	Supervisor and topic chosen by mutual agreement between student and Linguistics faculty member. Department Advisor approval is required.	In Person Learning	Arranged	Arranged
LING_V 448-A_003	LING_V	448	A	A_003	Directed Studies	W1	Supervisor and topic chosen by mutual agreement between student and Linguistics faculty member. Department Advisor approval is required.	In Person Learning	Arranged	Arranged
LING_V 448-A_005	LING_V	448	A	A_005	Directed Studies	W1	Supervisor and topic chosen by mutual agreement between student and Linguistics faculty member. Department Advisor approval is required.	In Person Learning	Arranged	Arranged
LING_V 448-C_001	LING_V	448	C	C_001	Directed Studies	W1-2	Supervisor and topic chosen by mutual agreement between student and Linguistics faculty member. Department Advisor approval is required.	In Person Learning	Arranged	Arranged
LING_V 448-C_002	LING_V	448	C	C_002	Directed Studies	W1-2	Supervisor and topic chosen by mutual agreement between student and Linguistics faculty member. Department Advisor approval is required.	In Person Learning	Arranged	Arranged
LING_V 449-001	LING_V	449		001	Honours Essay	W1-2		In Person Learning	Arranged	Arranged
LING_V 449-002	LING_V	449		002	Honours Essay	W1-2		In Person Learning	Arranged	Arranged
LING_V 449-003	LING_V	449		003	Honours Essay	W1-2		In Person Learning	Arranged	Arranged
LING_V 449-004	LING_V	449		004	Honours Essay	W1-2		In Person Learning	Arranged	Arranged
LING_V 449-005	LING_V	449		005	Honours Essay	W1-2		In Person Learning	Arranged	Arranged
LING_V 451-002	LING_V	451		002	Acquisition of Phonology	W2	Development of the phonological system in typical first language acquisition from the perspective of diverse linguistic topics. Phonetic transcription of child speech. Prerequisite: All of LING 222, LING 311.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LING_V 452-001	LING_V	452		001	Acquisition of Syntax	W1	Central issues in the first language acquisition of syntax, including early lexical and semantic development, acquisition of morphology, and syntactic development (e.g., word order, questions). Prerequisite: All of LING 222, LING 300.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LING_V 508-002	LING_V	508		002	Phonetic Theory & Analysis	W2	Discussion and critical analysis of current issues in linguistic phonetics; instrumental analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
LING_V 510-001	LING_V	510		001	Phonological Theory and Analysis	W1	Discussion and critical analysis of current issues in phonological theory. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:30 a.m. - 1:00 p.m.
LING_V 511-002	LING_V	511		002	Topics in Phonology	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: LING 510.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LING_V 518-A_001	LING_V	518	A	A_001	Advanced Research Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LING_V 520-001	LING_V	520		001	Syntactic Theory and Analysis	W1	Discussion and critical analysis of current issues in syntactic theory. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LING_V 525-002	LING_V	525		002	Semantic Theory and Analysis	W2	Discussion and critical analysis of current issues in semantic theory. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
LING_V 527-001	LING_V	527		001	Topics in Semantics	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: LING 525.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LING_V 530-A_002	LING_V	530	A	A_002	Linguistic Problems in a Special Area	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LING_V 530-C_002	LING_V	530	C	C_002	Linguistic Problems in a Special Area	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.

LING_V 530-R_001	LING_V	530	R	R_001	Linguistic Problems in a Special Area	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
LING_V 531-001	LING_V	531		001	Field Methods in Linguistics I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
LING_V 532-002	LING_V	532		002	Field Methods in Linguistics II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: [LING531]	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
LING_V 546-C_001	LING_V	546	C	C_001	Directed Reading in Topics related to Linguistics	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LING_V 546-D_001	LING_V	546	D	D_001	Directed Reading in Topics related to Linguistics	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LING_V 546-D_002	LING_V	546	D	D_002	Directed Reading in Topics related to Linguistics	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LING_V 546-E_001	LING_V	546	E	E_001	Directed Reading in Topics related to Linguistics	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LING_V 549-C_001	LING_V	549	C	C_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LING_V 549-C_002	LING_V	549	C	C_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LING_V 549-C_003	LING_V	549	C	C_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LING_V 649-001	LING_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
LING_V 649-002	LING_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
LING_V 649-003	LING_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
LLED_V 200-001	LLED_V	200		001	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 200-002	LLED_V	200		002	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 200-003	LLED_V	200		003	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 200-004	LLED_V	200		004	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.
LLED_V 200-005	LLED_V	200		005	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.
LLED_V 200-V89	LLED_V	200		V89	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LLED_V 200-V90	LLED_V	200		V90	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
LLED_V 200-V91	LLED_V	200		V91	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LLED_V 200-V92	LLED_V	200		V92	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LLED_V 200-V93	LLED_V	200		V93	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

LLED_V 200-V94	LLED_V	200	V94	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LLED_V 200-V95	LLED_V	200	V95	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Arranged	Arranged
LLED_V 200-V96	LLED_V	200	V96	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Arranged	Arranged
LLED_V 200-V97	LLED_V	200	V97	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Arranged	Arranged
LLED_V 200-V98	LLED_V	200	V98	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Arranged	Arranged
LLED_V 200-VE1	LLED_V	200	VE1	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 200-VE2	LLED_V	200	VE2	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LLED_V 200-VE3	LLED_V	200	VE3	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
LLED_V 200-VE4	LLED_V	200	VE4	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
LLED_V 200-VE5	LLED_V	200	VE5	Introduction to Writing in Academic and Professional Registers	W1	Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.	In Person Learning	Arranged	Arranged
LLED_V 201-001	LLED_V	201	001	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 201-002	LLED_V	201	002	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 201-003	LLED_V	201	003	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.
LLED_V 201-004	LLED_V	201	004	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	11:30 a.m. - 1:00 p.m.
LLED_V 201-V89	LLED_V	201	V89	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 201-V90	LLED_V	201	V90	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 201-V91	LLED_V	201	V91	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
LLED_V 201-V92	LLED_V	201	V92	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
LLED_V 201-V93	LLED_V	201	V93	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
LLED_V 201-V94	LLED_V	201	V94	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
LLED_V 201-V95	LLED_V	201	V95	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Arranged	Arranged
LLED_V 201-V96	LLED_V	201	V96	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Arranged	Arranged
LLED_V 201-V97	LLED_V	201	V97	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Arranged	Arranged

LLED_V 201-V98	LLED_V	201	V98	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Arranged	Arranged	
LLED_V 201-VE1	LLED_V	201	VE1	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
LLED_V 201-VE2	LLED_V	201	VE2	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	1:30 p.m. - 3:00 p.m.	
LLED_V 201-VE3	LLED_V	201	VE3	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
LLED_V 201-VE4	LLED_V	201	VE4	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
LLED_V 201-VE5	LLED_V	201	VE5	Critical Reading and Writing in Academic and Professional Registers	W2		In Person Learning	Arranged	Arranged	
LLED_V 212-001	LLED_V	212	001	Introduction to Language Communities and Variation in Language Practices	W1	Sociolinguistic analysis of language variation according to age, ethnicity, class, race, and gender, and how these variations function in both reflecting and constructing specific identities and memberships in society.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	
LLED_V 212-L01	LLED_V	212	L01	Introduction to Language Communities and Variation in Language Practices	W1	Sociolinguistic analysis of language variation according to age, ethnicity, class, race, and gender, and how these variations function in both reflecting and constructing specific identities and memberships in society.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.	
LLED_V 213-001	LLED_V	213	001	Introduction to Intercultural Communication and Socialization in Multicultural Contexts	W2	The processes by which individuals become competent members of society through the use of language.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	
LLED_V 213-002	LLED_V	213	002	Introduction to Intercultural Communication and Socialization in Multicultural Contexts	W2	The processes by which individuals become competent members of society through the use of language.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	
LLED_V 213-L01	LLED_V	213	L01	Introduction to Intercultural Communication and Socialization in Multicultural Contexts	W2	The processes by which individuals become competent members of society through the use of language.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.	
LLED_V 213-L02	LLED_V	213	L02	Introduction to Intercultural Communication and Socialization in Multicultural Contexts	W2	The processes by which individuals become competent members of society through the use of language.	In Person Learning	Fri	11:30 a.m. - 1:00 p.m.	
LLED_V 220-001	LLED_V	220	001	Introduction to Translating in a Globalized Society	W1	Basic tenets of translation as a methodology for increasing students' sociocultural understanding, intercultural communication, pragmatics, and written English.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	
LLED_V 220-L01	LLED_V	220	L01	Introduction to Translating in a Globalized Society	W1	Basic tenets of translation as a methodology for increasing students' sociocultural understanding, intercultural communication, pragmatics, and written English.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.	
LLED_V 222-001	LLED_V	222	001	Introduction to Public and Private Language Practices in a Globalized Society	W2	Exploration of the interrelationships between language structure, usage and social context and the interpretive differences that may result from their interaction.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	
LLED_V 222-L01	LLED_V	222	L01	Introduction to Public and Private Language Practices in a Globalized Society	W2	Exploration of the interrelationships between language structure, usage and social context and the interpretive differences that may result from their interaction.	In Person Learning	Fri	11:30 a.m. - 1:00 p.m.	
LLED_V 223-001	LLED_V	223	001	Introduction to the Nature of World Englishes	W1	Exploration of the emergence of new English varieties, as well as a critical examination of main reasons linked to the rise of English worldwide and its proposed role as a neutral global language.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.	
LLED_V 223-002	LLED_V	223	002	Introduction to the Nature of World Englishes	W2	Exploration of the emergence of new English varieties, as well as a critical examination of main reasons linked to the rise of English worldwide and its proposed role as a neutral global language.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	
LLED_V 223-L01	LLED_V	223	L01	Introduction to the Nature of World Englishes	W1	Exploration of the emergence of new English varieties, as well as a critical examination of main reasons linked to the rise of English worldwide and its proposed role as a neutral global language.	In Person Learning	Fri	11:30 a.m. - 1:00 p.m.	
LLED_V 223-L02	LLED_V	223	L02	Introduction to the Nature of World Englishes	W2	Exploration of the emergence of new English varieties, as well as a critical examination of main reasons linked to the rise of English worldwide and its proposed role as a neutral global language.	In Person Learning	Fri	11:30 a.m. - 1:00 p.m.	
LLED_V 315-A_301	LLED_V	315	A	A_301	English as a Second Language - Secondary: Curriculum and Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:30 p.m.
LLED_V 325-A_105	LLED_V	325	A	A_105	Teaching and Learning French in Elementary Schools	W1	Taught in French. Strategies, theoretical foundations, and approaches related to teaching elementary French (Immersion, Core, Intensive) programs. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:30 p.m. - 4:30 p.m.
LLED_V 336-177	LLED_V	336	177	Communication: Voice, Audience, Message	W2	Knowledge and development of skills necessary to create a transactional style of teaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	

LLED_V 336-377	LLED_V	336	377	Communication: Voice, Audience, Message	W1	Knowledge and development of skills necessary to create a transactional style of teaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
LLED_V 350-101	LLED_V	350	101	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LLED_V 350-102	LLED_V	350	102	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
LLED_V 350-103	LLED_V	350	103	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
LLED_V 350-104	LLED_V	350	104	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LLED_V 350-105	LLED_V	350	105	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
LLED_V 350-107	LLED_V	350	107	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
LLED_V 350-108	LLED_V	350	108	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
LLED_V 350-109	LLED_V	350	109	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue (Alternate weeks)	9:30 a.m. - 12:30 p.m.
LLED_V 350-110	LLED_V	350	110	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:30 p.m. - 4:30 p.m.
LLED_V 350-640	LLED_V	350	640	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 350-650	LLED_V	350	650	Classroom Discourses: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LLED_V 351-101	LLED_V	351	101	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.
LLED_V 351-102	LLED_V	351	102	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 4:30 p.m.
LLED_V 351-103	LLED_V	351	103	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:30 p.m. - 4:00 p.m.
LLED_V 351-104	LLED_V	351	104	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
LLED_V 351-105	LLED_V	351	105	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:30 a.m. - 1:00 p.m.
LLED_V 351-107	LLED_V	351	107	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
LLED_V 351-108	LLED_V	351	108	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:00 p.m.
LLED_V 351-109	LLED_V	351	109	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon (Alternate weeks)	2:00 p.m. - 5:00 p.m.
LLED_V 351-110	LLED_V	351	110	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:30 p.m.
LLED_V 351-640	LLED_V	351	640	Literacy Practices and Assessment: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 352-101	LLED_V	352	101	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 1:00 p.m.

LLED_V 352-102	LLED_V	352	102	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:00 p.m.
LLED_V 352-103	LLED_V	352	103	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 1:00 p.m.
LLED_V 352-104	LLED_V	352	104	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:00 p.m.
LLED_V 352-106	LLED_V	352	106	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 7:30 p.m.
LLED_V 352-107	LLED_V	352	107	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:30 p.m.
LLED_V 352-108	LLED_V	352	108	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	10:30 a.m. - 12:30 p.m.
LLED_V 352-109	LLED_V	352	109	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue (Alternate weeks)	9:30 a.m. - 12:30 p.m.
LLED_V 352-110	LLED_V	352	110	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 10:30 a.m.
LLED_V 352-640	LLED_V	352	640	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 352-641	LLED_V	352	641	Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 353-101	LLED_V	353	101	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
LLED_V 353-102	LLED_V	353	102	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
LLED_V 353-103	LLED_V	353	103	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
LLED_V 353-104	LLED_V	353	104	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 11:30 a.m.
LLED_V 353-105	LLED_V	353	105	Teaching and Learning English as an Additional Language: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
LLED_V 353-107	LLED_V	353	107	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
LLED_V 353-108	LLED_V	353	108	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
LLED_V 353-109	LLED_V	353	109	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
LLED_V 353-110	LLED_V	353	110	Teaching and Learning English as an Additional Language: Elementary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
LLED_V 353-650	LLED_V	353	650	Teaching and Learning English as an Additional Language: Elementary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LLED_V 360-301	LLED_V	360	301	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
LLED_V 360-302	LLED_V	360	302	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:30 p.m. - 4:00 p.m.
LLED_V 360-303	LLED_V	360	303	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.

LLED_V 360-304	LLED_V	360	304	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
LLED_V 360-305	LLED_V	360	305	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LLED_V 360-306	LLED_V	360	306	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
LLED_V 360-307	LLED_V	360	307	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
LLED_V 360-308	LLED_V	360	308	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.
LLED_V 360-309	LLED_V	360	309	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.
LLED_V 360-310	LLED_V	360	310	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 360-640	LLED_V	360	640	Classroom Discourses and Teaching English Language Learners: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 361-640	LLED_V	361	640	Literacy Practices and Assessment: Secondary	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 366-301	LLED_V	366	301	Teaching Literature	W1	Curriculum and pedagogy related to the theories, concepts, and strategies relevant in secondary school classrooms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
LLED_V 366-302	LLED_V	366	302	Teaching Literature	W1	Curriculum and pedagogy related to the theories, concepts, and strategies relevant in secondary school classrooms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
LLED_V 366-640	LLED_V	366	640	Teaching Literature	W1	Curriculum and pedagogy related to the theories, concepts, and strategies relevant in secondary school classrooms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 367-301	LLED_V	367	301	Teaching Writing	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
LLED_V 367-302	LLED_V	367	302	Teaching Writing	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
LLED_V 368-301	LLED_V	368	301	Multiliteracies in English Language Arts Classrooms	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 371-301	LLED_V	371	301	Foundations of Teaching French: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 372-301	LLED_V	372	301	Teaching French Language and Literacy: Secondary	W1	Language of instruction is French. Pass/Fail for B.Ed. students. Non-B.Ed. students are eligible for percentage grading or Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
LLED_V 381-301	LLED_V	381	301	Foundations of Teaching Modern Languages: Secondary	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:30 p.m.
LLED_V 381-640	LLED_V	381	640	Foundations of Teaching Modern Languages: Secondary	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 386-301	LLED_V	386	301	Secondary Theatre: Introduction to Curriculum & Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
LLED_V 386-640	LLED_V	386	640	Secondary Theatre: Introduction to Curriculum & Pedagogy	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 388-301	LLED_V	388	301	Secondary Theatre: Principles and Design	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.
LLED_V 399-002	LLED_V	399	002	Practicum in Teaching English as a Second Language	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.

LLED_V 402-001	LLED_V	402	001	Living Language: Science and Society	W1	Multi-disciplinary course in which students, individually and in groups, examine, integrate and apply subject-specific knowledge through the lens of language and the framework of the language sciences, with a focus on themes of real-world importance. Prerequisite: Fourth-year standing or permission of the instructor. Equivalency: APSC402, ASTU402, FRST402, LFS 402, PHAR402	Online Learning	Mon Wed	11:00 a.m. - 12:30 p.m.	
LLED_V 423-301	LLED_V	423	301	Teaching French Adolescent Literature: Secondary	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 8:00 p.m.	
LLED_V 441-63A	LLED_V	441	63A	Introduction to Teaching Children's Literature	W1		Online Learning	Arranged	Arranged	
LLED_V 441-63B	LLED_V	441	63B	Introduction to Teaching Children's Literature	W1		Online Learning	Arranged	Arranged	
LLED_V 441-63C	LLED_V	441	63C	Introduction to Teaching Children's Literature	W2		Online Learning	Arranged	Arranged	
LLED_V 441-63D	LLED_V	441	63D	Introduction to Teaching Children's Literature	W2		Online Learning	Arranged	Arranged	
LLED_V 441-W3C	LLED_V	441	W3C	Introduction to Teaching Children's Literature	W2		In Person Learning	Arranged	Arranged	
LLED_V 446-63C	LLED_V	446	63C	Teaching with Illustrated Materials, K-12: From Picture Books to Information Texts	W2		Online Learning	Arranged	Arranged	
LLED_V 452-63A	LLED_V	452	63A	Disciplinary Literacies: Intermediate Through Secondary	W1	How teachers can support students to develop disciplinary literacies that will enable them to understand, analyze, interpret and critique ideas, genres, and language in discipline-specific texts in and beyond the intermediate and secondary school contexts.	Online Learning	Arranged	Arranged	
LLED_V 452-63C	LLED_V	452	63C	Disciplinary Literacies: Intermediate Through Secondary	W2	How teachers can support students to develop disciplinary literacies that will enable them to understand, analyze, interpret and critique ideas, genres, and language in discipline-specific texts in and beyond the intermediate and secondary school contexts.	In Person Learning	Arranged	Arranged	
LLED_V 454-061	LLED_V	454	061	Adolescent Literacies: Processes and Practices	W2		In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
LLED_V 459-63C	LLED_V	459	63C	Trends and Issues in Literacy Instruction	W2		Online Learning	Arranged	Arranged	
LLED_V 462-63A	LLED_V	462	63A	School Library Resource Centre Programs	W1		Online Learning	Arranged	Arranged	
LLED_V 462-63B	LLED_V	462	63B	School Library Resource Centre Programs	W1		Online Learning	Arranged	Arranged	
LLED_V 469-63A	LLED_V	469	63A	Inquiry-Based Pedagogy in School Library Programs	W1	Principles and practices of teachers and teacher-librarians designing and teaching curriculum using inquiry-based pedagogy. LLED 469 is a core course for the Teacher Librarian Diploma.	Online Learning	Arranged	Arranged	
LLED_V 478-A_001	LLED_V	478	A	A_001	Introduction to Teaching English as a Second Language	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
LLED_V 478-A_002	LLED_V	478	A	A_002	Introduction to Teaching English as a Second Language	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
LLED_V 478-B_001	LLED_V	478	B	B_001	Introduction to Teaching English as a Second Language	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
LLED_V 478-B_002	LLED_V	478	B	B_002	Introduction to Teaching English as a Second Language	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
LLED_V 478-C_61A	LLED_V	478	C	C_61A	Introduction to Teaching English as a Second Language	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 479-61A	LLED_V	479	61A	The Education of Immigrant Students	W1	An examination of the cultural backgrounds of major ethnic groups. Instructional techniques for meeting the needs of immigrant students in the regular classroom with respect to culture and language.	In Person Learning	Arranged	Arranged	
LLED_V 480-E_061	LLED_V	480	E	E_061	Advanced Studies in Language and Literacy Education	W1	Credit will be given for only 6 credits of LLED 480 and 429.	In Person Learning	Arranged	Arranged

LLED_V 480-E_062	LLED_V	480	E	E_062	Advanced Studies in Language and Literacy Education	W2	Credit will be given for only 6 credits of LLED 480 and 429.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 481-301	LLED_V	481		301	Digital Media in English Language Arts Education	W1		In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
LLED_V 489-A_001	LLED_V	489	A	A_001	Applied Linguistics for Teachers	W1		In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
LLED_V 489-A_61A	LLED_V	489	A	A_61A	Applied Linguistics for Teachers	W1		Online Learning	Arranged	Arranged
LLED_V 489-A_62A	LLED_V	489	A	A_62A	Applied Linguistics for Teachers	W2		In Person Learning	Arranged	Arranged
LLED_V 489-B_003	LLED_V	489	B	B_003	Applied Linguistics for Teachers	W2		In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 489-B_61A	LLED_V	489	B	B_61A	Applied Linguistics for Teachers	W1		Online Learning	Arranged	Arranged
LLED_V 491-A_001	LLED_V	491	A	A_001	Supervised Study in English Education	W1		In Person Learning	Arranged	Arranged
LLED_V 491-B_002	LLED_V	491	B	B_002	Supervised Study in English Education	W2		In Person Learning	Arranged	Arranged
LLED_V 491-C_003	LLED_V	491	C	C_003	Supervised Study in English Education	W1-2		In Person Learning	Arranged	Arranged
LLED_V 492-A_001	LLED_V	492	A	A_001	Supervised Study in Reading	W1		In Person Learning	Arranged	Arranged
LLED_V 492-B_002	LLED_V	492	B	B_002	Supervised Study in Reading	W2		In Person Learning	Arranged	Arranged
LLED_V 492-C_003	LLED_V	492	C	C_003	Supervised Study in Reading	W1-2		In Person Learning	Arranged	Arranged
LLED_V 493-A_001	LLED_V	493	A	A_001	Supervised Study in Modern Languages Education	W1		In Person Learning	Arranged	Arranged
LLED_V 493-B_002	LLED_V	493	B	B_002	Supervised Study in Modern Languages Education	W2		In Person Learning	Arranged	Arranged
LLED_V 493-C_003	LLED_V	493	C	C_003	Supervised Study in Modern Languages Education	W1-2		In Person Learning	Arranged	Arranged
LLED_V 502-062	LLED_V	502		062	Analyzing Discourse in Education: Descriptive and Critical Approaches	W2	Credit will be granted for only one of LLED 502 or EPSE 587. This course is not eligible for Credit/D/Fail grading. Equivalency: EPSE587	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
LLED_V 505-061	LLED_V	505		061	Environmental Literacy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 505-062	LLED_V	505		062	Environmental Literacy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 510-061	LLED_V	510		061	Language, Discourse and Identity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 510-062	LLED_V	510		062	Language, Discourse and Identity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
LLED_V 510-62A	LLED_V	510		62A	Language, Discourse and Identity	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 513-62A	LLED_V	513		62A	Indigenous Storytelling in Education	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged

LLED_V 513-62B	LLED_V	513	62B	Indigenous Storytelling in Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LLED_V 520-A_61A	LLED_V	520	A	A_61A	Theory and Research in Teaching of Modern Languages	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LLED_V 521-062	LLED_V	521	062	Critical Intercultural Studies in Language Education	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
LLED_V 526-061	LLED_V	526	061	Second Language Assessment: Conceptual and Empirical Approaches	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
LLED_V 526-062	LLED_V	526	062	Second Language Assessment: Conceptual and Empirical Approaches	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	4:30 p.m. - 7:30 p.m.	
LLED_V 526-61A	LLED_V	526	61A	Second Language Assessment: Conceptual and Empirical Approaches	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LLED_V 526-61B	LLED_V	526	61B	Second Language Assessment: Conceptual and Empirical Approaches	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LLED_V 534-A_61A	LLED_V	534	A	A_61A	Theory and Research in Teaching Written Composition	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
LLED_V 540-061	LLED_V	540	061	Introduction to Research in the Teaching of Literature	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
LLED_V 551-61A	LLED_V	551	61A	Introduction to Literacies Across the Lifespan: Theories and Practices	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LLED_V 553-062	LLED_V	553	062	Theoretical Foundations of ESL/EL Reading Pedagogy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.	
LLED_V 556-A_61A	LLED_V	556	A	A_61A	Theory and Research in Early Literacy	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LLED_V 556-A_62A	LLED_V	556	A	A_62A	Theory and Research in Early Literacy	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LLED_V 558-62A	LLED_V	558	62A	Literacy and Multimodality	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
LLED_V 558-62B	LLED_V	558	62B	Literacy and Multimodality	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LLED_V 559-061	LLED_V	559	061	Digital Media Literacies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.	
LLED_V 559-62A	LLED_V	559	62A	Digital Media Literacies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LLED_V 565-D_062	LLED_V	565	D	D_062	Special Course in Subject Matter Field	W2	Courses in various subject matter fields designed to bring teachers up to date in recent findings in each field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 565-O_062	LLED_V	565	O	O_062	Special Course in Subject Matter Field	W2	Courses in various subject matter fields designed to bring teachers up to date in recent findings in each field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 565-Q_062	LLED_V	565	Q	Q_062	Special Course in Subject Matter Field	W2	Courses in various subject matter fields designed to bring teachers up to date in recent findings in each field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.
LLED_V 570-062	LLED_V	570	062	Theory and Research in English Language Education: Discourse Perspectives	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:30 p.m. - 7:30 p.m.	
LLED_V 572-A_061	LLED_V	572	A	A_061	Theory and Research in Teaching English as a Second Language	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:30 p.m. - 7:30 p.m.
LLED_V 572-A_62A	LLED_V	572	A	A_62A	Theory and Research in Teaching English as a Second Language	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged

LLED_V 573-A_061	LLED_V	573	A	A_061	Theories of Second Language Acquisition	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	4:30 p.m. - 7:30 p.m.
LLED_V 574-062	LLED_V	574		062	Theory and Research in Teaching Second Language Writing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 577-061	LLED_V	577		061	Culture and Politics in Second Language Education	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:30 p.m. - 7:30 p.m.
LLED_V 580-A_061	LLED_V	580	A	A_061	Problems in Education	W1	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LLED_V 580-B_062	LLED_V	580	B	B_062	Problems in Education	W2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LLED_V 580-C_060	LLED_V	580	C	C_060	Problems in Education	W1-2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LLED_V 580-D_060	LLED_V	580	D	D_060	Problems in Education	W1-2	Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
LLED_V 590-060	LLED_V	590		060	Graduating PROJECT	W1-2	Demonstration of students' theoretical and applied knowledge as acquired during their M.Ed. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 590-061	LLED_V	590		061	Graduating PROJECT	W1	Demonstration of students' theoretical and applied knowledge as acquired during their M.Ed. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 590-062	LLED_V	590		062	Graduating PROJECT	W2	Demonstration of students' theoretical and applied knowledge as acquired during their M.Ed. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 590-62A	LLED_V	590		62A	Graduating PROJECT	W2	Demonstration of students' theoretical and applied knowledge as acquired during their M.Ed. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LLED_V 590-62B	LLED_V	590		62B	Graduating PROJECT	W2	Demonstration of students' theoretical and applied knowledge as acquired during their M.Ed. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
LLED_V 599-060	LLED_V	599		060	Master's Thesis	W1-2	This course is restricted to students in Language and Literacy Education (LLED) MA programs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 599-061	LLED_V	599		061	Master's Thesis	W1	This course is restricted to students in Language and Literacy Education (LLED) MA programs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 599-062	LLED_V	599		062	Master's Thesis	W2	This course is restricted to students in Language and Literacy Education (LLED) MA programs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LLED_V 601-061	LLED_V	601		061	Theories for Language and Literacy Research	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the Ph.D. program in LLED.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
LLED_V 602-062	LLED_V	602		062	Critical Analysis of Issues and Methodology in Language and Literacy Education	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the Ph.D. program in LLED.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
LLED_V 699-060	LLED_V	699		060	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
LLED_V 699-061	LLED_V	699		061	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
LLED_V 699-062	LLED_V	699		062	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
LWS_V 501-001	LWS_V	501		001	Advanced Soil Processes	W1	Integration of soil physics, chemistry, and biology in understanding essential soil processes. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL501	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
LWS_V 501-T01	LWS_V	501		T01	Advanced Soil Processes	W1	Integration of soil physics, chemistry, and biology in understanding essential soil processes. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL501	In Person Learning	Tue	3:30 p.m. - 4:30 p.m.
LWS_V 510-003	LWS_V	510		003	Land and Water Seminar	W1-2	Current and emerging issues relevant within the general context of land and water systems, and the significance of professional credibility and exposure. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.

LWS_V 515-001	LWS_V	515	001	Watershed Science	W1	Watershed evaluation, key aspects of hydrology, water quality, land use impacts on water resources and integration of multiple land use activities and their cumulative impacts. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL 515	In Person Learning	Thu	4:30 p.m. - 5:30 p.m.	
LWS_V 516-001	LWS_V	516	001	Urban Watershed Management	W1	Urbanization impacts on water resources with a focus on rainwater management, water quality, point and non-point sources of pollution, drinking water and waste water, riparian buffer zones, cumulative effects, and application of beneficial management practices. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL516	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.	
LWS_V 517-001	LWS_V	517	001	Land and Water Resource Evaluation	W1	Topics in land and water system evaluations and assessing resource development options: monitoring and modelling environmental systems. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL517	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
LWS_V 525-002	LWS_V	525	002	Global Issues in Land and Water Systems	W2	Historical framework of importance of water basins, legacy between water basins and human evolution, effects of agriculture, forestry, industry and urbanization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.	
LWS_V 530-A_001	LWS_V	530	A	A_001	Directed Studies in Land and Water Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-A_002	LWS_V	530	A	A_002	Directed Studies in Land and Water Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-A_003	LWS_V	530	A	A_003	Directed Studies in Land and Water Systems	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-B_001	LWS_V	530	B	B_001	Directed Studies in Land and Water Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-B_002	LWS_V	530	B	B_002	Directed Studies in Land and Water Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-B_003	LWS_V	530	B	B_003	Directed Studies in Land and Water Systems	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-C_001	LWS_V	530	C	C_001	Directed Studies in Land and Water Systems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-C_002	LWS_V	530	C	C_002	Directed Studies in Land and Water Systems	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 530-C_003	LWS_V	530	C	C_003	Directed Studies in Land and Water Systems	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
LWS_V 548-001	LWS_V	548	001	Major Project	W1	Professional paper on topics focusing on emerging issues in water and land resources. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LWS_V 548-002	LWS_V	548	002	Major Project	W2	Professional paper on topics focusing on emerging issues in water and land resources. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
LWS_V 550-002	LWS_V	550	002	Professional Communications Strategies	W2	Communication strategies for natural resource management professionals, with an emphasis on written, oral and digital media communications in a multi-stakeholder context. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
MANU_V 201-101	MANU_V	201	101	Technical Communication	W1	Written and oral communication in business correspondence, engineering design methods, report preparation and oral presentations of technical material. Restricted to students in second year of the Manufacturing Engineering Program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150. Equivalency: APSC 201	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.	
MANU_V 230-001	MANU_V	230	001	Manufacturing Engineering Laboratory	W1-2	Theory, operational constraints, and problem solving in traditional manufacturing processes. Casting, heat treatment, bulk deformation (i.e. rolling, extrusion, drawing), machining, joining, and shaping of composites. Experiments in process and product characterization. This course is not eligible for Credit/D/Fail grading. [1-2-0; 1-2-0]	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.	
MANU_V 230-10A	MANU_V	230	10A	Manufacturing Engineering Laboratory	W1-2	Theory, operational constraints, and problem solving in traditional manufacturing processes. Casting, heat treatment, bulk deformation (i.e. rolling, extrusion, drawing), machining, joining, and shaping of composites. Experiments in process and product characterization. This course is not eligible for Credit/D/Fail grading. [1-2-0; 1-2-0]	In Person Learning	Thu	10:30 a.m. - 12:30 p.m.	
MANU_V 230-10B	MANU_V	230	10B	Manufacturing Engineering Laboratory	W1-2	Theory, operational constraints, and problem solving in traditional manufacturing processes. Casting, heat treatment, bulk deformation (i.e. rolling, extrusion, drawing), machining, joining, and shaping of composites. Experiments in process and product characterization. This course is not eligible for Credit/D/Fail grading. [1-2-0; 1-2-0]	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.	
MANU_V 261-101	MANU_V	261	101	Thermodynamics	W1	Thermodynamic system and properties, thermodynamic processes; work and heat interactions. Conservation of energy and First Law, internal energy and enthalpy, the Second Law and entropy, application to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158. Corequisite: MATH 255.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
MANU_V 261-T1A	MANU_V	261	T1A	Thermodynamics	W1	Thermodynamic system and properties, thermodynamic processes; work and heat interactions. Conservation of energy and First Law, internal energy and enthalpy, the Second Law and entropy, application to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158. Corequisite: MATH 255.	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.	

MANU_V 265-201	MANU_V	265	201	Machine Dynamics	W2	Classifications of mechanisms, velocity, acceleration and force analysis, graphical and computer-oriented vector and matrix methods, balancing, flywheels, gears, gear trains, cams. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170. Corequisite: MATH 255.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
MANU_V 265-T2A	MANU_V	265	T2A	Machine Dynamics	W2	Classifications of mechanisms, velocity, acceleration and force analysis, graphical and computer-oriented vector and matrix methods, balancing, flywheels, gears, gear trains, cams. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170. Corequisite: MATH 255.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MANU_V 270-201	MANU_V	270	201	Production Systems Management I	W2	Impact of operations in increasing productivity and reducing waste. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
MANU_V 330-001	MANU_V	330	001	Manufacturing Engineering Project I	W1-2	Project-based, multi-step manufacturing engineering design and problem solving. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0] Prerequisite: MANU 230.	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
MANU_V 330-L0A	MANU_V	330	L0A	Manufacturing Engineering Project I	W1-2	Project-based, multi-step manufacturing engineering design and problem solving. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0] Prerequisite: MANU 230.	In Person Learning	Tue	12:30 p.m. - 2:30 p.m.
MANU_V 330-L0B	MANU_V	330	L0B	Manufacturing Engineering Project I	W1-2	Project-based, multi-step manufacturing engineering design and problem solving. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0] Prerequisite: MANU 230.	In Person Learning	Thu	1:30 p.m. - 3:30 p.m.
MANU_V 370-101	MANU_V	370	101	Production Systems Management II	W1	Functional area of production and operations management. Decision-making, capacity planning, aggregate planning, inventory management, distribution planning, materials requirements planning and quality control. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: MANU 270.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MANU_V 378-201	MANU_V	378	201	Engineering Materials II	W2	Materials selection for different design criteria; importance of shape and processing variables; computer software in selection. Credit will be granted for only one of MTRL 280 or MANU 378. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: APSC 278.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
MANU_V 378-T2A	MANU_V	378	T2A	Engineering Materials II	W2	Materials selection for different design criteria; importance of shape and processing variables; computer software in selection. Credit will be granted for only one of MTRL 280 or MANU 378. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: APSC 278.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
MANU_V 380-102	MANU_V	380	102	Manufacturing Processes I	W1	Correlation between material properties and processability for practical engineering manufacturing routes. Calculations and design. Application of heat/mass/fluid transport, mechanics and thermodynamics to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: All of APSC 278, APSC 279, MTRL 264, MECH 260 and one of MANU 261, MTRL 250 and one of MECH 280, MTRL 263.	In Person Learning	Tue Thu	4:00 p.m. - 5:00 p.m.
MANU_V 380-T1A	MANU_V	380	T1A	Manufacturing Processes I	W1	Correlation between material properties and processability for practical engineering manufacturing routes. Calculations and design. Application of heat/mass/fluid transport, mechanics and thermodynamics to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: All of APSC 278, APSC 279, MTRL 264, MECH 260 and one of MANU 261, MTRL 250 and one of MECH 280, MTRL 263.	In Person Learning	Wed	3:30 p.m. - 5:30 p.m.
MANU_V 386-101	MANU_V	386	101	Industrial Automation	W1	Principle components of manufacturing automation, modelling of sensors-actuators and control systems, robotic programming, programmable logical control (PLC) systems and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MANU 265, MATH 255. Corequisite: MANU 330.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
MANU_V 386-L1A	MANU_V	386	L1A	Industrial Automation	W1	Principle components of manufacturing automation, modelling of sensors-actuators and control systems, robotic programming, programmable logical control (PLC) systems and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MANU 265, MATH 255. Corequisite: MANU 330.	In Person Learning	Tue	8:00 a.m. - 11:00 a.m.
MANU_V 386-L1B	MANU_V	386	L1B	Industrial Automation	W1	Principle components of manufacturing automation, modelling of sensors-actuators and control systems, robotic programming, programmable logical control (PLC) systems and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MANU 265, MATH 255. Corequisite: MANU 330.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.
MANU_V 386-L1C	MANU_V	386	L1C	Industrial Automation	W1	Principle components of manufacturing automation, modelling of sensors-actuators and control systems, robotic programming, programmable logical control (PLC) systems and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MANU 265, MATH 255. Corequisite: MANU 330.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
MANU_V 386-L1D	MANU_V	386	L1D	Industrial Automation	W1	Principle components of manufacturing automation, modelling of sensors-actuators and control systems, robotic programming, programmable logical control (PLC) systems and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MANU 265, MATH 255. Corequisite: MANU 330.	In Person Learning	Fri	3:00 p.m. - 6:00 p.m.
MANU_V 386-T1A	MANU_V	386	T1A	Industrial Automation	W1	Principle components of manufacturing automation, modelling of sensors-actuators and control systems, robotic programming, programmable logical control (PLC) systems and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MANU 265, MATH 255. Corequisite: MANU 330.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MANU_V 386-T1B	MANU_V	386	T1B	Industrial Automation	W1	Principle components of manufacturing automation, modelling of sensors-actuators and control systems, robotic programming, programmable logical control (PLC) systems and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MANU 265, MATH 255. Corequisite: MANU 330.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
MANU_V 430-001	MANU_V	430	001	Manufacturing Design Capstone Project	W1-2	Project-based, multi-step, multi-part Capstone design project involving manufacturing engineering design methods, problem solving. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0] Prerequisite: MANU 330.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MANU_V 430-L0A	MANU_V	430	L0A	Manufacturing Design Capstone Project	W1-2	Project-based, multi-step, multi-part Capstone design project involving manufacturing engineering design methods, problem solving. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0] Prerequisite: MANU 330.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
MANU_V 430-L0B	MANU_V	430	L0B	Manufacturing Design Capstone Project	W1-2	Project-based, multi-step, multi-part Capstone design project involving manufacturing engineering design methods, problem solving. This course is not eligible for Credit/D/Fail grading. [1-4-0; 1-4-0] Prerequisite: MANU 330.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
MANU_V 450-101	MANU_V	450	101	Biomedical Manufacturing	W1	Bulk and nanoscale manufacturing processes for biomedical devices, materials and therapeutics; drug delivery; host-tissue biomaterial interactions; surface modification of medical devices; sterilization techniques; good manufacturing processes; medical device regulation. [3-0-0] Prerequisite: Third-year standing or higher.	In Person Learning	Arranged	Arranged

MANU_V 450-201	MANU_V	450	201	Biomedical Manufacturing	W2	Bulk and nanoscale manufacturing processes for biomedical devices, materials and therapeutics; drug delivery; host-tissue biomaterial interactions; surface modification of medical devices; sterilization techniques; good manufacturing processes; medical device regulation. [3-0-0] Prerequisite: Third-year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MANU_V 453-201	MANU_V	453	201	Additive Manufacturing Design	W2	Design tools and methods for additive manufacturing, complex digital geometry creation, computer aided design tools, additive manufacturing workflow development, producibility analysis, analysis of 3D data sets for suitability to additive manufacturing processes. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing or greater.	In Person Learning	Wed	4:30 p.m. - 6:30 p.m.
MANU_V 453-L2A	MANU_V	453	L2A	Additive Manufacturing Design	W2	Design tools and methods for additive manufacturing, complex digital geometry creation, computer aided design tools, additive manufacturing workflow development, producibility analysis, analysis of 3D data sets for suitability to additive manufacturing processes. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing or greater.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
MANU_V 458-201	MANU_V	458	201	Manufacturing for Clean Energy	W2	Manufacturing and the net-zero energy transition; renewable, low-carbon and sustainable energy and electricity generation; energy, electricity transport, storage and batteries; hydrogen economy; carbon capture utilization and storage (CCUS). This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Third-year standing or greater.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
MANU_V 465-101	MANU_V	465	101	AI and Machine Learning Applications in Manufacturing	W1	Artificial intelligence, machine learning techniques, Deep learning, Python libraries for machine learning, Basic signal processing techniques, Data Acquisition, Applications in Manufacturing, Use of sound to evaluate operation of CNC machinery, Use of AE sensor to evaluate metal 3D printing This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MANU_V 465-T1A	MANU_V	465	T1A	AI and Machine Learning Applications in Manufacturing	W1	Artificial intelligence, machine learning techniques, Deep learning, Python libraries for machine learning, Basic signal processing techniques, Data Acquisition, Applications in Manufacturing, Use of sound to evaluate operation of CNC machinery, Use of AE sensor to evaluate metal 3D printing This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
MANU_V 480-101	MANU_V	480	101	Manufacturing Processes II	W1	Numerical modelling of manufacturing processes, linkage between material, process, properties and product geometry, heat/mass transport, thermodynamics and design principles applied to practical engineering processes. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: MANU 380.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
MANU_V 480-T1A	MANU_V	480	T1A	Manufacturing Processes II	W1	Numerical modelling of manufacturing processes, linkage between material, process, properties and product geometry, heat/mass transport, thermodynamics and design principles applied to practical engineering processes. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: MANU 380.	In Person Learning	Thu	12:30 p.m. - 3:30 p.m.
MANU_V 481-201	MANU_V	481	201	Manufacturing Processes III	W2	Integrating concepts of primary (casting), secondary (deformation), and tertiary (machining and surface treatment) processes and economic and environmental assessment. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: MANU 380.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
MANU_V 481-T2A	MANU_V	481	T2A	Manufacturing Processes III	W2	Integrating concepts of primary (casting), secondary (deformation), and tertiary (machining and surface treatment) processes and economic and environmental assessment. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: MANU 380.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
MANU_V 485-201	MANU_V	485	201	Metal Cutting and Machine Tool Vibrations	W2	Metal cutting and grinding mechanics; prediction of force-torque-power in turning, drilling, milling and grinding operations. Machine tool vibrations, forced and self-excited vibrations in machining, experimental modal testing of machine tools, chatter, and stability. Credit will be granted for only one of MANU 485 or MECH 592. This course is not eligible for Credit/D/Fail grading. [3-1*-0]	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
MANU_V 485-L2A	MANU_V	485	L2A	Metal Cutting and Machine Tool Vibrations	W2	Metal cutting and grinding mechanics; prediction of force-torque-power in turning, drilling, milling and grinding operations. Machine tool vibrations, forced and self-excited vibrations in machining, experimental modal testing of machine tools, chatter, and stability. Credit will be granted for only one of MANU 485 or MECH 592. This course is not eligible for Credit/D/Fail grading. [3-1*-0]	In Person Learning	Thu	12:30 p.m. - 1:30 p.m.
MANU_V 485-L2B	MANU_V	485	L2B	Metal Cutting and Machine Tool Vibrations	W2	Metal cutting and grinding mechanics; prediction of force-torque-power in turning, drilling, milling and grinding operations. Machine tool vibrations, forced and self-excited vibrations in machining, experimental modal testing of machine tools, chatter, and stability. Credit will be granted for only one of MANU 485 or MECH 592. This course is not eligible for Credit/D/Fail grading. [3-1*-0]	In Person Learning	Thu	1:30 p.m. - 2:30 p.m.
MANU_V 485-L2C	MANU_V	485	L2C	Metal Cutting and Machine Tool Vibrations	W2	Metal cutting and grinding mechanics; prediction of force-torque-power in turning, drilling, milling and grinding operations. Machine tool vibrations, forced and self-excited vibrations in machining, experimental modal testing of machine tools, chatter, and stability. Credit will be granted for only one of MANU 485 or MECH 592. This course is not eligible for Credit/D/Fail grading. [3-1*-0]	In Person Learning	Thu	3:00 p.m. - 4:00 p.m.
MATH_V 100-001	MATH_V	100	001	Differential Calculus with Applications	W2	Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
MATH_V 100-002	MATH_V	100	002	Differential Calculus with Applications	W2	Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
MATH_V 100-003	MATH_V	100	003	Differential Calculus with Applications	W2	Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
MATH_V 100-004	MATH_V	100	004	Differential Calculus with Applications	W2	Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MATH_V 100-005	MATH_V	100	005	Differential Calculus with Applications	W2	Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.	In Person Learning	Arranged	Arranged



















MATH_V 101-C32	MATH_V	101	C32	Integral Calculus with Applications	W2	The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MATH_V 101-C33	MATH_V	101	C33	Integral Calculus with Applications	W2	The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
MATH_V 101-C34	MATH_V	101	C34	Integral Calculus with Applications	W2	The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MATH_V 101-C35	MATH_V	101	C35	Integral Calculus with Applications	W2	The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MATH_V 101-C36	MATH_V	101	C36	Integral Calculus with Applications	W2	The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MATH_V 101-DAR	MATH_V	101	DAR	Integral Calculus with Applications	W2	The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Arranged	Arranged
MATH_V 110-001	MATH_V	110	001	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 110-W1A	MATH_V	110	W1A	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
MATH_V 110-W1B	MATH_V	110	W1B	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
MATH_V 110-W1C	MATH_V	110	W1C	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
MATH_V 110-W1D	MATH_V	110	W1D	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Tue	3:30 p.m. - 5:00 p.m.
MATH_V 110-W1E	MATH_V	110	W1E	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Thu	3:30 p.m. - 5:00 p.m.
MATH_V 110-W1F	MATH_V	110	W1F	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
MATH_V 110-W1G	MATH_V	110	W1G	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Tue	9:30 a.m. - 11:00 a.m.
MATH_V 110-W1H	MATH_V	110	W1H	Differential Calculus	W1-2	Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
MATH_V 120-101	MATH_V	120	101	Honours Differential Calculus	W1	Limits, derivatives, Mean Value Theorem and applications, elementary functions, optimization, Taylor series, approximation. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [4-0-0] Prerequisite: High-school calculus and one of (a) a score of 95% or higher in BC Principles of Mathematics 12 or Pre-calculus 12; or (b) permission from the Mathematics Department Head.	In Person Learning	Mon Tue Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 120-102	MATH_V	120	102	Honours Differential Calculus	W1	Limits, derivatives, Mean Value Theorem and applications, elementary functions, optimization, Taylor series, approximation. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [4-0-0] Prerequisite: High-school calculus and one of (a) a score of 95% or higher in BC Principles of Mathematics 12 or Pre-calculus 12; or (b) permission from the Mathematics Department Head.	In Person Learning	Mon Tue Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 121-201	MATH_V	121	201	Honours Integral Calculus	W2	Definite integrals and the Fundamental Theorem of Calculus, techniques and applications of integration, infinite series. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [4-0-0] Prerequisite: Either (a) MATH 120 or (b) one of MATH 100, MATH 102, MATH 104, MATH 180, MATH 184. Prerequisite grade requirement: 80% in MATH184, MATH180, MATH104, MATH102, MATH100. 68% in MATH120. or (c) a score of 5 in AP Calculus AB.	In Person Learning	Mon Tue Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 152-201	MATH_V	152	201	Linear Systems	W2	2D and 3D geometry, vectors and matrices, eigenvalues and vibration, physical applications. Laboratories demonstrate computer solutions of large systems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-1*-0] Corequisite: [MATH101]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.





MATH_V 180-DM2	MATH_V	180	DM2	Differential Calculus with Applications	W1	Topics as for Math 100; intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
MATH_V 180-DT1	MATH_V	180	DT1	Differential Calculus with Applications	W1	Topics as for Math 100; intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
MATH_V 180-DT2	MATH_V	180	DT2	Differential Calculus with Applications	W1	Topics as for Math 100; intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
MATH_V 180-DW1	MATH_V	180	DW1	Differential Calculus with Applications	W1	Topics as for Math 100; intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
MATH_V 180-DW2	MATH_V	180	DW2	Differential Calculus with Applications	W1	Topics as for Math 100; intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
MATH_V 190-101	MATH_V	190	101	Calculus Survey	W1	Functions, derivatives, integrals, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 190. [3-0-2] Prerequisite: Principles of Mathematics 12 or Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 190-L1A	MATH_V	190	L1A	Calculus Survey	W1	Functions, derivatives, integrals, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 190. [3-0-2] Prerequisite: Principles of Mathematics 12 or Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
MATH_V 190-L1B	MATH_V	190	L1B	Calculus Survey	W1	Functions, derivatives, integrals, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 190. [3-0-2] Prerequisite: Principles of Mathematics 12 or Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
MATH_V 190-L1C	MATH_V	190	L1C	Calculus Survey	W1	Functions, derivatives, integrals, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 190. [3-0-2] Prerequisite: Principles of Mathematics 12 or Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.
MATH_V 200-101	MATH_V	200	101	Calculus III	W1	Analytic geometry in 2 and 3 dimensions, partial and directional derivatives, chain rule, maxima and minima, second derivative test, Lagrange multipliers, multiple integrals with applications. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MATH_V 200-102	MATH_V	200	102	Calculus III	W1	Analytic geometry in 2 and 3 dimensions, partial and directional derivatives, chain rule, maxima and minima, second derivative test, Lagrange multipliers, multiple integrals with applications. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 200-103	MATH_V	200	103	Calculus III	W1	Analytic geometry in 2 and 3 dimensions, partial and directional derivatives, chain rule, maxima and minima, second derivative test, Lagrange multipliers, multiple integrals with applications. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
MATH_V 200-10M	MATH_V	200	10M	Calculus III	W1	Analytic geometry in 2 and 3 dimensions, partial and directional derivatives, chain rule, maxima and minima, second derivative test, Lagrange multipliers, multiple integrals with applications. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 200-201	MATH_V	200	201	Calculus III	W2	Analytic geometry in 2 and 3 dimensions, partial and directional derivatives, chain rule, maxima and minima, second derivative test, Lagrange multipliers, multiple integrals with applications. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 210-201	MATH_V	210	201	Introduction to Mathematical Computing	W2	Introduction to mathematical software and numerical methods. Numbers, arrays, functions, vectorization and iteration. Sequences and series, root finding, numerical integration, numerical methods for differential equations, systems of linear equations, mathematical graphics. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001. Corequisite: One of MATH 215, MATH 255, MATH 256, MATH 258 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.

MATH_V 210-20M	MATH_V	210	20M	Introduction to Mathematical Computing	W2	Introduction to mathematical software and numerical methods. Numbers, arrays, functions, vectorization and iteration. Sequences and series, root finding, numerical integration, numerical methods for differential equations, systems of linear equations, mathematical graphics. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001. Corequisite: One of MATH 215, MATH 255, MATH 256, MATH 258 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 215-101	MATH_V	215	101	Elementary Differential Equations I	W1	First-order equations; linear equations; linear systems; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
MATH_V 215-102	MATH_V	215	102	Elementary Differential Equations I	W1	First-order equations; linear equations; linear systems; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 215-104	MATH_V	215	104	Elementary Differential Equations I	W1	First-order equations; linear equations; linear systems; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 215-201	MATH_V	215	201	Elementary Differential Equations I	W2	First-order equations; linear equations; linear systems; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 215-202	MATH_V	215	202	Elementary Differential Equations I	W2	First-order equations; linear equations; linear systems; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 215-20M	MATH_V	215	20M	Elementary Differential Equations I	W2	Partial differentiation, extreme values, multiple integration, vector fields, line and surface integrals, the divergence theorem, Green's and Stokes' theorems. Intended for students in Honours Physics and Engineering Physics. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [4-0-0] Prerequisite: A score of 68% or higher in one of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001. Corequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 217-101	MATH_V	217	101	Multivariable and Vector Calculus	W1	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 220-101	MATH_V	220	101	Mathematical Proof	W1	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 220-102	MATH_V	220	102	Mathematical Proof	W1	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
MATH_V 220-103	MATH_V	220	103	Mathematical Proof	W1	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 220-10M	MATH_V	220	10M	Mathematical Proof	W1	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
MATH_V 220-201	MATH_V	220	201	Mathematical Proof	W2	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 220-202	MATH_V	220	202	Mathematical Proof	W2	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 220-20M	MATH_V	220	20M	Mathematical Proof	W2	Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits. Logic, structure, style, and clarity of proofs emphasized throughout. [3-0-0] Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.

MATH_V 221-101	MATH_V	221	101	Matrix Algebra	W1	Systems of linear equations, operations on matrices, determinants, eigenvalues and eigenvectors, diagonalization of symmetric matrices. This course is intended for first and second year students. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCIE 001 or (b) advanced credit for MATH 100.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 221-102	MATH_V	221	102	Matrix Algebra	W1	Systems of linear equations, operations on matrices, determinants, eigenvalues and eigenvectors, diagonalization of symmetric matrices. This course is intended for first and second year students. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCIE 001 or (b) advanced credit for MATH 100.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
MATH_V 221-10M	MATH_V	221	10M	Matrix Algebra	W1	Systems of linear equations, operations on matrices, determinants, eigenvalues and eigenvectors, diagonalization of symmetric matrices. This course is intended for first and second year students. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCIE 001 or (b) advanced credit for MATH 100.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 221-201	MATH_V	221	201	Matrix Algebra	W2	Systems of linear equations, operations on matrices, determinants, eigenvalues and eigenvectors, diagonalization of symmetric matrices. This course is intended for first and second year students. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCIE 001 or (b) advanced credit for MATH 100.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MATH_V 221-202	MATH_V	221	202	Matrix Algebra	W2	Systems of linear equations, operations on matrices, determinants, eigenvalues and eigenvectors, diagonalization of symmetric matrices. This course is intended for first and second year students. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCIE 001 or (b) advanced credit for MATH 100.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 223-101	MATH_V	223	101	Honours Linear Algebra	W1	Matrices, eigenvectors, diagonalization, orthogonality, linear systems, applications. This course is intended for first and second-year students. Students who obtain credit for MATH 223 cannot in the same or later terms obtain credit for MATH 152 or MATH 221. [3-0-0] Prerequisite: Either (a) one of MATH 120, MATH 121, SCIE 001 or (b) a score of 80% or higher in one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 180, MATH 184 or (c) a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 152, MATH 221.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 226-101	MATH_V	226	101	Advanced Calculus I	W1	Functions of several variables: limits, continuity, differentiability; implicit functions; Taylor's theorem; extrema; Lagrange multipliers; multiple integration, Fubini's theorem; improper integrals. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) a score of 68% or higher in MATH 121 or (b) a score of 80% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001. Corequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 227-201	MATH_V	227	201	Advanced Calculus II	W2	Parametrization of curves and surfaces; line and surface integrals; theorems of Green, Gauss, Stokes; applications to physics and/or introduction to differential forms. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: MATH 226. Prerequisite grade requirement: 68% in MATH226.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 230-201	MATH_V	230	201	Marvels of Mathematics	W2	A variety of topics in mathematics, showcasing its beauty and utility. Intended for a general audience of students whose degrees have no mathematics requirements, but who may be curious about practical and recreational mathematics. Not for credit in the Faculty of Science. Students who obtain UBC credit for any other mathematics course cannot in the same or later years obtain credit for MATH 230. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 253-10R	MATH_V	253	10R	Multivariable Calculus	W1	Partial and directional derivatives; maxima and minima; Lagrange multipliers and second derivative test; multiple integrals and applications. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	Hybrid Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 254-201	MATH_V	254	201	Multivariable and Vector Calculus for Mechanical Engineering	W2	Partial differentiation, extreme values, multiple integration, vector fields, line and surface integrals, the divergence and Stokes' theorems; applications to fluid mechanics: buoyancy, hydrostatic force, pipe flow, drag; applications to thermodynamics: work, entropy, heat transfer; numerical methods. Emphasis on mechanical engineering applications. [3-0-1*] Prerequisite: MATH 101 and one of MATH 152, MATH 221, MATH 223. Corequisite: All of MECH 222, MECH 225.	In Person Learning	Arranged	Arranged
MATH_V 255-101	MATH_V	255	101	Ordinary Differential Equations	W1	Review of linear systems; nonlinear equations and applications; phase plane analysis; Laplace transforms; numerical methods. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
MATH_V 255-102	MATH_V	255	102	Ordinary Differential Equations	W1	Review of linear systems; nonlinear equations and applications; phase plane analysis; Laplace transforms; numerical methods. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 255-104	MATH_V	255	104	Ordinary Differential Equations	W1	Review of linear systems; nonlinear equations and applications; phase plane analysis; Laplace transforms; numerical methods. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.

MATH_V 256-101	MATH_V	256	101	Differential Equations	W1	Linear ordinary differential equations, Laplace transforms, Fourier series and separation of variables for linear partial differential equations. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 256-102	MATH_V	256	102	Differential Equations	W1	Linear ordinary differential equations, Laplace transforms, Fourier series and separation of variables for linear partial differential equations. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 256-201	MATH_V	256	201	Differential Equations	W2	Linear ordinary differential equations, Laplace transforms, Fourier series and separation of variables for linear partial differential equations. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 256-202	MATH_V	256	202	Differential Equations	W2	Linear ordinary differential equations, Laplace transforms, Fourier series and separation of variables for linear partial differential equations. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 256-203	MATH_V	256	203	Differential Equations	W2	Linear ordinary differential equations, Laplace transforms, Fourier series and separation of variables for linear partial differential equations. Consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 257-101	MATH_V	257	101	Partial Differential Equations	W1	Introduction to partial differential equations; Fourier series; the heat, wave and potential equations; boundary-value problems; numerical methods. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 257-201	MATH_V	257	201	Partial Differential Equations	W2	Introduction to partial differential equations; Fourier series; the heat, wave and potential equations; boundary-value problems; numerical methods. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 258-101	MATH_V	258	101	Differential Equations for Mechanical Engineering	W1	First-order equations; linear equations; linear systems; Laplace transforms; trajectory analysis of plane nonlinear systems; translational and rotational vibrations; applications to RLC circuit analysis; numerical and graphical methods. Emphasis on mechanical engineering applications. [3-0-1*] Prerequisite: MATH 101 and one of MATH 152, MATH 221, MATH 223. Corequisite: All of MECH 221, MECH 224.	In Person Learning	Arranged	Arranged
MATH_V 258-11A	MATH_V	258	L1A	Differential Equations for Mechanical Engineering	W1	First-order equations; linear equations; linear systems; Laplace transforms; trajectory analysis of plane nonlinear systems; translational and rotational vibrations; applications to RLC circuit analysis; numerical and graphical methods. Emphasis on mechanical engineering applications. [3-0-1*] Prerequisite: MATH 101 and one of MATH 152, MATH 221, MATH 223. Corequisite: All of MECH 221, MECH 224.	In Person Learning	Arranged	Arranged
MATH_V 264-201	MATH_V	264	201	Vector Calculus for Electrical Engineering	W2	Divergence, gradient, curl, theorems of Gauss and Stokes. Applications to Electrostatics and Magnetostatics. MATH 264 content is strongly coupled to BMEG 220 and ELEC 211 with topics and student evaluations weighted accordingly. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Corequisite: One of BMEG 220, ELEC 211.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MATH_V 264-202	MATH_V	264	202	Vector Calculus for Electrical Engineering	W2	Divergence, gradient, curl, theorems of Gauss and Stokes. Applications to Electrostatics and Magnetostatics. MATH 264 content is strongly coupled to BMEG 220 and ELEC 211 with topics and student evaluations weighted accordingly. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Corequisite: One of BMEG 220, ELEC 211.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
MATH_V 264-203	MATH_V	264	203	Vector Calculus for Electrical Engineering	W2	Divergence, gradient, curl, theorems of Gauss and Stokes. Applications to Electrostatics and Magnetostatics. MATH 264 content is strongly coupled to BMEG 220 and ELEC 211 with topics and student evaluations weighted accordingly. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Corequisite: One of BMEG 220, ELEC 211.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MATH_V 300-101	MATH_V	300	101	Introduction to Complex Variables	W1	Functions of a complex variable, Cauchy-Riemann equations, elementary functions, Cauchy's theorem and contour integration, Laurent series, poles and residues. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Corequisite: One of MATH 217, MATH 227, MATH 254, MATH 317.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 300-201	MATH_V	300	201	Introduction to Complex Variables	W2	Functions of a complex variable, Cauchy-Riemann equations, elementary functions, Cauchy's theorem and contour integration, Laurent series, poles and residues. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Corequisite: One of MATH 217, MATH 227, MATH 254, MATH 317.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 301-201	MATH_V	301	201	Applied Analysis	W2	Integrals involving multi-valued functions, conformal mapping and applications, analytic continuation, Laplace and Fourier transforms. [3-0-0] Prerequisite: One of MATH 300, MATH 305. Corequisite: One of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 302-101	MATH_V	302	101	Introduction to Probability	W1	Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Equivalency: STAT302	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.

MATH_V 302-102	MATH_V	302	102	Introduction to Probability	W1	Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Equivalency: STAT302	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
MATH_V 302-103	MATH_V	302	103	Introduction to Probability	W1	Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Equivalency: STAT302	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 302-201	MATH_V	302	201	Introduction to Probability	W2	Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Equivalency: STAT302	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 303-201	MATH_V	303	201	Introduction to Stochastic Processes	W2	Discrete-time Markov chains, Poisson processes, continuous time Markov chains, renewal theory. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 302, STAT 302.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 303-202	MATH_V	303	202	Introduction to Stochastic Processes	W2	Discrete-time Markov chains, Poisson processes, continuous time Markov chains, renewal theory. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 302, STAT 302.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 305-201	MATH_V	305	201	Applied Complex Analysis	W2	Functions of a complex variable, Cauchy-Riemann equations, contour integration, Laurent series, residues, integrals of multi-valued functions, Fourier transforms. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254. Corequisite: One of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 307-101	MATH_V	307	101	Applied Linear Algebra	W1	Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 307-102	MATH_V	307	102	Applied Linear Algebra	W1	Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
MATH_V 307-103	MATH_V	307	103	Applied Linear Algebra	W1	Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MATH_V 307-201	MATH_V	307	201	Applied Linear Algebra	W2	Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 307-202	MATH_V	307	202	Applied Linear Algebra	W2	Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 309-101	MATH_V	309	101	Topics in Geometry	W1	Topics chosen by the instructor. These may include conic sections, projective configuration, convexity, non-Euclidean geometries, fractal geometry, combinatorial problems of points in the plane. [3-0-0] Prerequisite: Either (a) one of MATH 152, MATH 221 and one of MATH 220, MATH 226, CPSC 121; or (b) MATH 223.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 309-201	MATH_V	309	201	Topics in Geometry	W2	Topics chosen by the instructor. These may include conic sections, projective configuration, convexity, non-Euclidean geometries, fractal geometry, combinatorial problems of points in the plane. [3-0-0] Prerequisite: Either (a) one of MATH 152, MATH 221 and one of MATH 220, MATH 226, CPSC 121; or (b) MATH 223.	In Person Learning	Arranged	Arranged
MATH_V 312-101	MATH_V	312	101	Introduction to Number Theory	W1	Euclidean algorithm, congruences, Fermat's theorem, applications. Some diophantine equations. Distribution of the prime numbers. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> Prerequisite: One of MATH 220, MATH 223, MATH 226, CPSC 121. and 9 additional credits of mathematics courses.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 312-201	MATH_V	312	201	Introduction to Number Theory	W2	Euclidean algorithm, congruences, Fermat's theorem, applications. Some diophantine equations. Distribution of the prime numbers. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> Prerequisite: One of MATH 220, MATH 223, MATH 226, CPSC 121. and 9 additional credits of mathematics courses.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 316-101	MATH_V	316	101	Elementary Differential Equations II	W1	Power series methods (ordinary and regular singular points, Bessel's equation); boundary value problems and separation of variables (Fourier series and other orthogonal series), applications to the vibrating string, heat flow, potentials. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 316-201	MATH_V	316	201	Elementary Differential Equations II	W2	Power series methods (ordinary and regular singular points, Bessel's equation); boundary value problems and separation of variables (Fourier series and other orthogonal series), applications to the vibrating string, heat flow, potentials. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Arranged	Arranged
MATH_V 317-101	MATH_V	317	101	Calculus IV	W1	Parametrizations, inverse and implicit functions, integrals with respect to length and area; grad, div, and curl, theorems of Green, Gauss, and Stokes. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 200, MATH 226, MATH 253. One of MATH 152, MATH 221, MATH 223 is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.

MATH_V 317-201	MATH_V	317	201	Calculus IV	W2	Parametrizations, inverse and implicit functions, integrals with respect to length and area; grad, div, and curl, theorems of Green, Gauss, and Stokes. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 200, MATH 226, MATH 253. One of MATH 152, MATH 221, MATH 223 is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 318-201	MATH_V	318	201	Probability with Physical Applications	W2	Random variables, discrete and continuous distributions. Random walk, Markov chains, Monte Carlo methods. Characteristic functions, limit laws. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 319-101	MATH_V	319	101	Introduction to Real Analysis	W1	Ideas and methods of real analysis and their application. Countability and topology of the reals; convergence, continuity and differentiability of functions; metric spaces. Please consult the Faculty of Science credit exclusion list: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) a score of 68% or higher in MATH 220 or (b) a score of 55% or higher in one of MATH 223, MATH 226.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 320-101	MATH_V	320	101	Real Variables I	W1	The real number system; real Euclidean n-space; open, closed, compact, and connected sets; Bolzano-Weierstrass theorem; sequences and series. Continuity and uniform continuity. Differentiability and mean-value theorems. [3-0-0] Prerequisite: Either (a) a score of 68% or higher in MATH 226 or (b) one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 and a score of 80% or higher in MATH 220.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 321-201	MATH_V	321	201	Real Variables II	W2	The Riemann or Riemann-Stieltjes integrals. Sequences and series of functions, uniform convergence. Approximation of continuous functions by polynomials. Fourier series. Functions from $\mathbb{R}^m$ to $\mathbb{R}^n$ , inverse and implicit function theorems. [3-0-0] Prerequisite: MATH 320.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 322-101	MATH_V	322	101	Introduction to Group Theory	W1	Groups, cosets, homomorphisms, group actions, p-groups, Sylow theorems, composition series, finitely generated Abelian groups. [3-0-0] Prerequisite: Either (a) a score of 68% or higher in one of MATH 223, MATH 310 or (b) one of MATH 152, MATH 221, MATH 223 and a score of 80% or higher in MATH 220.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 323-201	MATH_V	323	201	Introduction to Rings and Modules	W2	Rings, ideals, unique factorization, Euclidean rings, fields, polynomial rings, modules; structure theory of modules over a principal ideal domain. [3-0-0] Prerequisite: MATH 322.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 335-201	MATH_V	335	201	Introduction to Mathematics	W2	Intensive course with required tutorial. Combinatorics, probability, geometry and elementary number theory. Not for credit in the Faculty of Science. Students who obtain credit at UBC for any other mathematics course cannot in the same or later years obtain credit for MATH 335. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-2]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 335-202	MATH_V	335	202	Introduction to Mathematics	W2	Intensive course with required tutorial. Combinatorics, probability, geometry and elementary number theory. Not for credit in the Faculty of Science. Students who obtain credit at UBC for any other mathematics course cannot in the same or later years obtain credit for MATH 335. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-2]	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
MATH_V 335-203	MATH_V	335	203	Introduction to Mathematics	W2	Intensive course with required tutorial. Combinatorics, probability, geometry and elementary number theory. Not for credit in the Faculty of Science. Students who obtain credit at UBC for any other mathematics course cannot in the same or later years obtain credit for MATH 335. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-2]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 340-101	MATH_V	340	101	Introduction to Linear Programming	W1	Linear programming problems, dual problems, the simplex algorithm, solution of primal and dual problems, sensitivity analysis. Additional topics chosen from: Karmarkar's algorithm, non-linear programming, game theory, applications. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 340-201	MATH_V	340	201	Introduction to Linear Programming	W2	Linear programming problems, dual problems, the simplex algorithm, solution of primal and dual problems, sensitivity analysis. Additional topics chosen from: Karmarkar's algorithm, non-linear programming, game theory, applications. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 340-202	MATH_V	340	202	Introduction to Linear Programming	W2	Linear programming problems, dual problems, the simplex algorithm, solution of primal and dual problems, sensitivity analysis. Additional topics chosen from: Karmarkar's algorithm, non-linear programming, game theory, applications. [3-0-0] Prerequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 341-201	MATH_V	341	201	Introduction to Discrete Mathematics	W2	Introduction to ideas and methods of discrete mathematics and their application. [3-0-0] Prerequisite: One of MATH 220, MATH 223, MATH 226, CPSC 121.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 342-101	MATH_V	342	101	Algebra and Coding Theory	W1	Error-correcting codes via abstract and linear algebra. Emphasis on proofs and computation. Finite fields, Hamming distance and error-correction, upper and lower bounds on the size of a code, linear codes, groups and cosets, encoding and decoding schemes. [3-0-0] Prerequisite: Either (a) one of MATH 152, MATH 221 and one of MATH 220, MATH 226, CPSC 121; or (b) MATH 223.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 344-101	MATH_V	344	101	Mathematical Game Theory	W1	Introduction to mathematical game theory and its applications. [3-0-0] Prerequisite: Either (a) one of MATH 152, MATH 221 and one of MATH 220, MATH 226, CPSC 121; or (b) MATH 223.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 360-101	MATH_V	360	101	Introduction to Mathematical Modelling	W1	Construction and evaluation of deterministic, stochastic, and data-driven models. Software-assisted simulations and numerical solutions involving ordinary differential equations, stochastic processes, and basic machine learning algorithms. Examples from science, engineering, and economics. [3-0-0] Prerequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 and one of MATH 210, CPSC 203, CPSC 210 and one of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 361-101	MATH_V	361	101	Introduction to Mathematical Biology	W1	Mathematical modelling of basic biological processes in ecology, physiology, neuroscience and genetics. Dynamic behavior of difference equations, differential equations, and partial differential equations, explained with reference to concrete biological examples. [3-0-0] Prerequisite: One of BIOL 301, MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.

MATH_V 398-001	MATH_V	398	001	Co-operative Work Placement I	W1	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 398-002	MATH_V	398	002	Co-operative Work Placement I	W2	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 399-001	MATH_V	399	001	Co-operative Work Placement II	W1	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MATH398]	In Person Learning	Arranged	Arranged
MATH_V 399-002	MATH_V	399	002	Co-operative Work Placement II	W2	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MATH398]	In Person Learning	Arranged	Arranged
MATH_V 400-101	MATH_V	400	101	Applied Partial Differential Equations	W1	Separation of variables, first order equations, Sturm-Liouville theory, integral transform methods. [3-0-0] Prerequisite: One of MATH 300, MATH 305 and one of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 400-201	MATH_V	400	201	Applied Partial Differential Equations	W2	Separation of variables, first order equations, Sturm-Liouville theory, integral transform methods. [3-0-0] Prerequisite: One of MATH 300, MATH 305 and one of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 401-201	MATH_V	401	201	Green's Functions and Variational Methods	W2	Green's functions for partial differential equations. Calculus of variations. Eigenfunction expansions, Rayleigh-Ritz and finite element methods. See Faculty of Science credit exclusion list: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: Either (a) a score of 80% or higher in one of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312 or (b) MATH 400.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 404-101	MATH_V	404	101	Harmonic Analysis I	W1	Harmonic analysis on Euclidean spaces, with applications to number theory, partial differential equations and geometric measure theory. [3-0-0] Prerequisite: MATH 300 and a score of 68% or higher in MATH 321. Corequisite: MATH 420.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 405-101	MATH_V	405	101	Numerical Methods for Differential Equations	W1	Interpolation, numerical integration, numerical solution of ordinary and partial differential equations. Practical computational methods emphasized and basic theory developed through simple models. See Faculty of Science credit exclusion list: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 406-201	MATH_V	406	201	Variational and Approximate Methods in Applied Mathematics	W2	Variational and Green's function methods for ordinary and partial differential equations, introduction to finite difference, finite element and boundary element methods. See Faculty of Science Credit exclusion list: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-0-0] Prerequisite: One of MATH 307, CPSC 302 and either (a) a score of 80% or higher in one of MATH 256, MATH 257, MATH 316, MATH 358, MECH 358, PHYS 312 or (b) MATH 400.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 412-201	MATH_V	412	201	Advanced Linear Algebra	W2	Topics include decompositions of linear operators, multilinear algebra, bilinear forms, metric spaces. [3-0-0] Prerequisite: A score of 68% or higher in MATH 322 and either (a) a score of 68% or higher in MATH 320 or (b) a score of 80% or higher in MATH 319.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 418-101	MATH_V	418	101	Probability	W1	Probability spaces, random variables, distributions, expectation, conditional probabilities, convergence of random variables, generating and characteristic functions, weak and strong laws of large numbers, central limit theorem. [3-0-0] Prerequisite: MATH 321. Prerequisite grade requirement: 68% in MATH321.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 419-201	MATH_V	419	201	Stochastic Processes	W2	Random walks, Markov chains, branching processes, Poisson processes, continuous time Markov chains, martingales, Brownian motion. [3-0-0] Prerequisite: [MATH418]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 420-101	MATH_V	420	101	Real Analysis I	W1	Sigma-algebras, Lebesgue measure, Borel measures, measurable functions, integration, convergence theorems, Lp spaces, Holder and Minkowski inequalities, Lebesgue and/or Radon-Nikodym differentiation. [3-0-0] Prerequisite: MATH 321. Prerequisite grade requirement: 68% in MATH321.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 421-201	MATH_V	421	201	Real Analysis II	W2	Banach spaces, linear operators, bounded and compact operators, strong, weak, and weak* topology. Hahn-Banach, open mapping, and closed graph theorems. Hilbert spaces, symmetric and self-adjoint operators, spectral theory for bounded operators. [3-0-0] Prerequisite: [MATH420]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 422-101	MATH_V	422	101	Fields and Galois Theory	W1	Field extensions, the Galois correspondence, finite fields, insolubility in radicals, ruler and compass constructions, additional topics chosen by instructor. [3-0-0] Prerequisite: MATH 323.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 423-201	MATH_V	423	201	Commutative Algebra	W2	Commutative algebra; homological algebra or representation theory of finite groups. [3-0-0] Prerequisite: MATH 323 and a score of 68% or higher in one of MATH 412, MATH 422.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 424-201	MATH_V	424	201	Classical Differential Geometry	W2	The differential geometry of curves and surfaces in three-dimensional Euclidean space. Mean curvature and Gaussian curvature. Geodesics. Gauss's Theorema Egregium. [3-0-0] Prerequisite: Either (a) a score of 68% or higher in MATH 223 or (b) a score of 80% or higher in one of MATH 152, MATH 221; and either (a) a score of 68% or higher in MATH 227 or (b) a score of 80% or higher in one of MATH 217, MATH 254, MATH 264, MATH 317.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 425-101	MATH_V	425	101	Introduction to Modern Differential Geometry	W1	Smooth manifolds, smooth maps, immersions and submersions, vector fields, vector bundles, tangent and cotangent bundles, tensors and differential forms, orientation of manifolds, integration of forms, and selected topics. [3-0-0] Prerequisite: One of MATH 221, MATH 223 and one of MATH 217, MATH 227, MATH 254, MATH 264, MATH 317 and one of MATH 319, MATH 320.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 425-201	MATH_V	425	201	Introduction to Modern Differential Geometry	W2	Smooth manifolds, smooth maps, immersions and submersions, vector fields, vector bundles, tangent and cotangent bundles, tensors and differential forms, orientation of manifolds, integration of forms, and selected topics. [3-0-0] Prerequisite: One of MATH 221, MATH 223 and one of MATH 217, MATH 227, MATH 254, MATH 264, MATH 317 and one of MATH 319, MATH 320.	In Person Learning	Arranged	Arranged

MATH_V 426-101	MATH_V	426	101	Introduction to Topology	W1	General topology, combinatorial topology, fundamental group and covering spaces, topics chosen by the instructor. [3-0-0] Prerequisite: All of MATH 321, MATH 322. Prerequisite grade requirement: 68% in MATH322,MATH321.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
MATH_V 427-201	MATH_V	427	201	Topics in Topology	W2	Homology theory, homotopy theory, manifolds, and other topics chosen by the instructor. [3-0-0] Prerequisite: [MATH426]	In Person Learning	Wed Fri	8:30 a.m. - 10:00 a.m.	
MATH_V 428-201	MATH_V	428	201	Mathematical Classical Mechanics I	W2	Newton's equation, conservation laws, the Euler-Lagrange equation; Hamilton's principle of least action, Hamilton's equations, Lagrangian mechanics on manifolds. [3-0-0] Prerequisite: One of MATH 215, MATH 255, MATH 256, MATH 258 and one of PHYS 216, PHYS 306, ENPH 270. Corequisite: MATH 320 (waived for students with a score of 80% or higher in MATH 319).	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
MATH_V 437-101	MATH_V	437	101	Number Theory	W1	Divisibility, congruences, Diophantine equations, arithmetic functions, quadratic reciprocity, advanced topics. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . [3-0-0] Corequisite: One of MATH 320 (waived for students with a score of 80% or higher in MATH 319), MATH 322.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
MATH_V 440-101	MATH_V	440	101	Complex Analysis	W1	The residue theorem, the argument principle, conformal mapping, the maximum modulus principle, harmonic functions, representation of functions by integrals, series, and products. Other topics at the discretion of the instructor. [3-0-0] Prerequisite: MATH 300 and either (a) a score of 68% or higher in MATH 320 or (b) a score of 80% or higher in MATH 319 and permission of the Department Head in Mathematics.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
MATH_V 441-201	MATH_V	441	201	Mathematical Modelling: Discrete Optimization Problems	W2	Formulation of real-world optimization problems using techniques such as linear programming, network flows, integer programming, dynamic programming. Solution by appropriate software. [3-0-0] Prerequisite: [MATH340]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
MATH_V 442-201	MATH_V	442	201	Graphs and Networks	W2	Graph theory, emphasizing trees, tree growing algorithms, and proof techniques. Other topics chosen from shortest paths, maximum flows, minimum cost flows, matchings, and graph colouring. [3-0-0] Prerequisite: 3rd year standing and one of MATH 220, MATH 223, MATH 226 or CPSC 221.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
MATH_V 443-201	MATH_V	443	201	Graph Theory	W2	Introductory course in mostly non-algebraic topics including: planarity and Kuratowski's theorem, graph colouring, graph minors, random graphs, cycles in graphs, Ramsey theory, extremal graph theory. Proofs emphasized. Intended for Honours students. [3-0-0] Prerequisite: A score of 68% or higher in one of MATH 220, MATH 223, MATH 226, CPSC 121. And 6 credits of MATH numbered 300 or above.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.	
MATH_V 444-202	MATH_V	444	202	Mathematical Research and Writing	W2	Current research topics in pure and applied mathematics are explored at the undergraduate level. Technical communication and research skills are developed. [3-0-0] Prerequisite: One of MATH 220, MATH 226, and 6 credits of MATH courses numbered 300 or higher.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
MATH_V 446-101	MATH_V	446	101	Topics in the History of Mathematics I	W1	Historical development of concepts and techniques in areas chosen from Geometry, Number Theory, Algebra, Calculus, Probability, Analysis. The focus is on historically significant writings of important contributors and on famous problems of Mathematics. [3-0-0] Prerequisite: 21 credits of MATH.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.	
MATH_V 448-A_101	MATH_V	448	A	A_101	Directed Studies in Mathematics	W1	Introduction to the methods of mathematical research through an exploration of a mathematical topic under the supervision of a faculty member. Written report required. [3-0-0] Prerequisite: Third- or fourth-year standing and permission of the Department Head.	In Person Learning	Arranged	Arranged
MATH_V 449-D_101	MATH_V	449	D	D_101	Honours Reading	W1	Independent reading by Honours students in Mathematics under the direction of a faculty member. Written report required. Prerequisite: Permission of the Department Head The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 450-101	MATH_V	450	101	Asymptotic and Perturbation Methods	W1	Asymptotic expansions. Asymptotic evaluation of integrals; WKB methods. Regular and singular expansions. Boundary layer theory; matched asymptotic expansions. Multiple scale techniques. [3-0-0] Prerequisite: MATH 400.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
MATH_V 461-201	MATH_V	461	201	Projects in Mathematical Modelling	W2	Computational methods for mathematical modelling. Numerical methods for partial differential equations, stochastic processes, and data-driven models. Includes student-directed projects on current research and applications. [3-0-0] Prerequisite: Either (a) MATH 360 or (b) one of MATH 210, CPSC 203, CPSC 210 and one of MATH 345, MATH 361.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
MATH_V 462-201	MATH_V	462	201	Projects in Mathematical Biology	W2	Development and analysis of mathematical models for complex systems in ecology, evolution, cell biology, neurophysiology, and other biological and medical disciplines. [3-0-0] Prerequisite: One of MATH 361, MATH 345.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
MATH_V 498-610	MATH_V	498	610	Co-operative Work Placement III	W1	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3 1/2 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MATH399]	In Person Learning	Arranged	Arranged	
MATH_V 498-611	MATH_V	498	611	Co-operative Work Placement III	W2	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3 1/2 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MATH399]	In Person Learning	Arranged	Arranged	
MATH_V 499-610	MATH_V	499	610	Co-operative Work Placement IV	W1	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3 1/2 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MATH498]	In Person Learning	Arranged	Arranged	
MATH_V 499-611	MATH_V	499	611	Co-operative Work Placement IV	W2	Approved and supervised technical work experience involving mathematics in industry for a minimum of 3 1/2 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MATH498]	In Person Learning	Arranged	Arranged	
MATH_V 501-101	MATH_V	501	101	Algebra I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
MATH_V 502-201	MATH_V	502	201	Algebra II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	

MATH_V 507-101	MATH_V	507	101	Measure Theory and Integration	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 508-101	MATH_V	508	101	Complex Analysis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MATH_V 510-201	MATH_V	510	201	Functional Analysis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 516-101	MATH_V	516	101	Partial Differential Equations I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 517-201	MATH_V	517	201	Partial Differential Equations II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 521-201	MATH_V	521	201	Numerical Analysis of Partial Differential Equations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 525-101	MATH_V	525	101	Differential Geometry I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 525-201	MATH_V	525	201	Differential Geometry I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 526-201	MATH_V	526	201	Differential Geometry II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MATH_V 527-201	MATH_V	527	201	Algebraic Topology I	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	8:30 a.m. - 10:00 a.m.
MATH_V 529-101	MATH_V	529	101	Differential Topology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 532-101	MATH_V	532	101	Algebraic Geometry I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 533-201	MATH_V	533	201	Algebraic Geometry II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 534-101	MATH_V	534	101	Lie Theory I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 535-201	MATH_V	535	201	Lie Theory II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 537-101	MATH_V	537	101	Elementary Number Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 538-201	MATH_V	538	201	Algebraic Number Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 539-201	MATH_V	539	201	Analytic Number Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 541-101	MATH_V	541	101	Harmonic Analysis I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MATH_V 542-201	MATH_V	542	201	Harmonic Analysis II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 544-101	MATH_V	544	101	Probability I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 545-201	MATH_V	545	201	Probability II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 548-201	MATH_V	548	201	Discrete Random Processes	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of MATH 544, MATH 545.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

MATH_V 549-A_001	MATH_V	549	A	A_001	Thesis for Master's Degree	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 549-A_002	MATH_V	549	A	A_002	Thesis for Master's Degree	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 549-A_003	MATH_V	549	A	A_003	Thesis for Master's Degree	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 549-B_004	MATH_V	549	B	B_004	Thesis for Master's Degree	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 549-B_005	MATH_V	549	B	B_005	Thesis for Master's Degree	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 549-B_006	MATH_V	549	B	B_006	Thesis for Master's Degree	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 550-101	MATH_V	550		101	Methods of Asymptotic Analysis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 551-201	MATH_V	551		201	Perturbation Methods for Differential Equations	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: [MATH550] Ordinary and partial differential equations (MATH 400 or equivalent). Ideas, methods and applications of bifurcation theory and dynamical systems: differential and difference equations, local bifurcations, perturbation methods, chaos. Recommended prerequisites: one of MATH 215, MATH 255, MATH 256 and one of MATH 256, MATH 257, MATH 316. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 552-101	MATH_V	552		101	Introduction to Dynamical Systems	W1		In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 555-201	MATH_V	555		201	Compressed Sensing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 560-201	MATH_V	560		201	Mathematical Biology	W2	Mathematical methods in modelling biological processes, at levels from cell biochemistry to community ecology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 562-201	MATH_V	562		201	Mathematical Electrophysiology	W2	Formulation and analysis of models of excitable media. FitzHugh-Nagumo model, ionic models of membrane excitability (e.g., Hodgkin-Huxley), calcium excitability, bursting phenomena. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MATH_V 564-101	MATH_V	564		101	Evolutionary Dynamics	W1	Mathematical models of evolution and evolutionary game theory. Stochastic dynamics in finite populations, dynamics in spatially structured populations, and adaptive dynamics. Applications include the origin of species and the problem of cooperation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 567-201	MATH_V	567		201	Nonlinear Wave Equations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 589-001	MATH_V	589		001	M.Sc. Major Essay	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 589-002	MATH_V	589		002	M.Sc. Major Essay	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 589-003	MATH_V	589		003	M.Sc. Major Essay	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 592-A_101	MATH_V	592	A	A_101	Topics in Automorphic Forms	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 599-201	MATH_V	599		201	Mathematics Teaching Techniques	W2	This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MATH_V 602-D_201	MATH_V	602	D	D_201	Topics in Geometry	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 605-D_101	MATH_V	605	D	D_101	Topics in Applied Mathematics	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 605-E_201	MATH_V	605	E	E_201	Topics in Applied Mathematics	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MATH_V 605-F_201	MATH_V	605	F	F_201	Topics in Applied Mathematics	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

MATH_V 606-D_101	MATH_V	606	D	D_101	Topics in Differential Equations	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 606-D_201	MATH_V	606	D	D_201	Topics in Differential Equations	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 607-E_101	MATH_V	607	E	E_101	Topics in Numerical Analysis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MATH_V 608-B_101	MATH_V	608	B	B_101	Topics in Probability	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 609-E_201	MATH_V	609	E	E_201	Topics in Mathematical Physics	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MATH_V 610-D_201	MATH_V	610	D	D_201	Topics in Pure Mathematics	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 612-D_101	MATH_V	612	D	D_101	Topics in Mathematical Biology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 613-D_101	MATH_V	613	D	D_101	Topics in Number Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MATH_V 615-A_201	MATH_V	615	A	A_201	Topics in Algebraic Geometry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MATH_V 615-B_201	MATH_V	615	B	B_201	Topics in Algebraic Geometry	W2	This course is not eligible for Credit/D/Fail grading. Advanced study under the direction of a faculty member may be arranged in special situations.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MATH_V 620-E_101	MATH_V	620	E	E_101	Directed Studies in Mathematics	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MATH_V 649-001	MATH_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Fri	3:00 p.m. - 4:30 p.m.
MATH_V 649-002	MATH_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
MATH_V 649-003	MATH_V	649		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
MDIA_V 100-001	MDIA_V	100		001	Media Objects	W1	Multidisciplinary perspectives on contemporary media objects and their effects.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
MDIA_V 100-L01	MDIA_V	100		L01	Media Objects	W1	Multidisciplinary perspectives on contemporary media objects and their effects.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
MDIA_V 100-L02	MDIA_V	100		L02	Media Objects	W1	Multidisciplinary perspectives on contemporary media objects and their effects.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
MDIA_V 100-L03	MDIA_V	100		L03	Media Objects	W1	Multidisciplinary perspectives on contemporary media objects and their effects.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
MDIA_V 100-L04	MDIA_V	100		L04	Media Objects	W1	Multidisciplinary perspectives on contemporary media objects and their effects.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MDIA_V 100-L05	MDIA_V	100		L05	Media Objects	W1	Multidisciplinary perspectives on contemporary media objects and their effects.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
MDIA_V 100-L06	MDIA_V	100		L06	Media Objects	W1	Multidisciplinary perspectives on contemporary media objects and their effects.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
MDIA_V 150-201	MDIA_V	150		201	Media Communities	W2	Media engagement with community partners through data, narrative and visual processes. Prerequisite: Restricted to BMS students with 1st year standing.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
MDIA_V 150-20A	MDIA_V	150		20A	Media Communities	W2	Media engagement with community partners through data, narrative and visual processes. Prerequisite: Restricted to BMS students with 1st year standing.	Online Learning	Arranged	Arranged

MDIA_V 290-201	MDIA_V	290	201	Collaborative Methods	W2	Development and practice of media group production processes. Restricted to BMS students with 2nd year standing or above.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
MDIA_V 290-20A	MDIA_V	290	20A	Collaborative Methods	W2	Development and practice of media group production processes. Restricted to BMS students with 2nd year standing or above.	In Person Learning	Arranged	Arranged
MDIA_V 470-A_201	MDIA_V	470	A_201	Special Topics	W2	Selected topics in media studies. Not offered every year. Prerequisite: Restricted to students with 3rd year standing or higher.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.
MDIA_V 470-A_20A	MDIA_V	470	A_20A	Special Topics	W2	Selected topics in media studies. Not offered every year. Prerequisite: Restricted to students with 3rd year standing or higher.	In Person Learning	Arranged	Arranged
MDVL_V 210-101	MDVL_V	210	101	Introduction to Medieval Studies	W1	A survey of the study of the medieval period in Western Europe (400-1550), integrating history, literature, and the arts; topics vary from year to year; interested students should consult the Medieval Studies Advisor.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MDVL_V 301-201	MDVL_V	301	201	European Literature from the 5th to the 14th Century	W2	Selected works from the 5th to the 14th centuries in their cultural and social contexts. Recommended pre-requisites: Third-year standing or above in the Faculty of Arts. Credit will be granted for only one of RMST_V 321 or MDVL_V 301. Equivalency: RMST_V 321.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
MECH_V 220-101	MECH_V	220	101	Technical Skills Practicum	W1	Engineering graphics, spatial visualization, CAD, equation solvers, machine shop practice, electronic circuit construction and troubleshooting, elements of engineering science. This course is not eligible for Credit/D/Fail grading. [1-3-3] Prerequisite: All of APSC 160, MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: MECH 221.	In Person Learning	Mon Tue Wed Thu Fri	8:30 a.m. - 9:30 a.m.
MECH_V 220-L1A	MECH_V	220	L1A	Technical Skills Practicum	W1	Engineering graphics, spatial visualization, CAD, equation solvers, machine shop practice, electronic circuit construction and troubleshooting, elements of engineering science. This course is not eligible for Credit/D/Fail grading. [1-3-3] Prerequisite: All of APSC 160, MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: MECH 221.	In Person Learning	Arranged	Arranged
MECH_V 220-L1B	MECH_V	220	L1B	Technical Skills Practicum	W1	Engineering graphics, spatial visualization, CAD, equation solvers, machine shop practice, electronic circuit construction and troubleshooting, elements of engineering science. This course is not eligible for Credit/D/Fail grading. [1-3-3] Prerequisite: All of APSC 160, MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: MECH 221.	In Person Learning	Arranged	Arranged
MECH_V 220-L1C	MECH_V	220	L1C	Technical Skills Practicum	W1	Engineering graphics, spatial visualization, CAD, equation solvers, machine shop practice, electronic circuit construction and troubleshooting, elements of engineering science. This course is not eligible for Credit/D/Fail grading. [1-3-3] Prerequisite: All of APSC 160, MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: MECH 221.	In Person Learning	Arranged	Arranged
MECH_V 220-L1D	MECH_V	220	L1D	Technical Skills Practicum	W1	Engineering graphics, spatial visualization, CAD, equation solvers, machine shop practice, electronic circuit construction and troubleshooting, elements of engineering science. This course is not eligible for Credit/D/Fail grading. [1-3-3] Prerequisite: All of APSC 160, MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: MECH 221.	In Person Learning	Arranged	Arranged
MECH_V 221-101	MECH_V	221	101	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MECH_V 221-L1A	MECH_V	221	L1A	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
MECH_V 221-L1B	MECH_V	221	L1B	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 221-L1C	MECH_V	221	L1C	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 221-L1D	MECH_V	221	L1D	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 221-T1A	MECH_V	221	T1A	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
MECH_V 221-T1B	MECH_V	221	T1B	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.

MECH_V 221-T1C	MECH_V	221	T1C	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MECH_V 221-T1D	MECH_V	221	T1D	Engineering Science I	W1	Rigid body kinetics and kinematics, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: All of MECH 220, MECH 224.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MECH_V 222-201	MECH_V	222	201	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MECH_V 222-L2A	MECH_V	222	L2A	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 222-L2B	MECH_V	222	L2B	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 222-L2C	MECH_V	222	L2C	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 222-L2D	MECH_V	222	L2D	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 222-T2A	MECH_V	222	T2A	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
MECH_V 222-T2B	MECH_V	222	T2B	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MECH_V 222-T2C	MECH_V	222	T2C	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
MECH_V 222-T2D	MECH_V	222	T2D	Engineering Science II	W2	Fluid properties, equations of state. Pressure, buoyancy, hydrostatic forces. Conservation of mass, momentum, and energy. Work and heat; internal energy and enthalpy. Bernoulli's equation. Dimensional analysis, modelling. Turbulent flow in pipes; turbomachinery. Second law and the Carnot cycle; entropy; first and second law analysis of systems. This course is not eligible for Credit/D/Fail grading. [5-2-1] Prerequisite: MECH 220. Corequisite: MECH 225.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
MECH_V 223-201	MECH_V	223	201	Introduction to the Mechanical Design Process	W2	Design methodology, synthesis and analysis. Design projects representing both mechanical mechanism design and thermofluid systems. This course is not eligible for Credit/D/Fail grading. [3-8-0] Prerequisite: MECH 220.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
MECH_V 223-T2A	MECH_V	223	T2A	Introduction to the Mechanical Design Process	W2	Design methodology, synthesis and analysis. Design projects representing both mechanical mechanism design and thermofluid systems. This course is not eligible for Credit/D/Fail grading. [3-8-0] Prerequisite: MECH 220.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MECH_V 223-T2B	MECH_V	223	T2B	Introduction to the Mechanical Design Process	W2	Design methodology, synthesis and analysis. Design projects representing both mechanical mechanism design and thermofluid systems. This course is not eligible for Credit/D/Fail grading. [3-8-0] Prerequisite: MECH 220.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MECH_V 223-T2C	MECH_V	223	T2C	Introduction to the Mechanical Design Process	W2	Design methodology, synthesis and analysis. Design projects representing both mechanical mechanism design and thermofluid systems. This course is not eligible for Credit/D/Fail grading. [3-8-0] Prerequisite: MECH 220.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MECH_V 223-T2D	MECH_V	223	T2D	Introduction to the Mechanical Design Process	W2	Design methodology, synthesis and analysis. Design projects representing both mechanical mechanism design and thermofluid systems. This course is not eligible for Credit/D/Fail grading. [3-8-0] Prerequisite: MECH 220.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MECH_V 224-1AB	MECH_V	224	1AB	Integration of Engineering Concepts I	W1	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on dynamics, solid mechanics, materials, electronics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 221.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.

MECH_V 224-1CD	MECH_V	224	1CD	Integration of Engineering Concepts I	W1	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on dynamics, solid mechanics, materials, electronics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 221.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MECH_V 224-1RM	MECH_V	224	1RM	Integration of Engineering Concepts I	W1	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on dynamics, solid mechanics, materials, electronics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 221.	In Person Learning	Arranged	Arranged
MECH_V 224-2RM	MECH_V	224	2RM	Integration of Engineering Concepts I	W2	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on dynamics, solid mechanics, materials, electronics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 221.	In Person Learning	Arranged	Arranged
MECH_V 225-1RM	MECH_V	225	1RM	Integration of Engineering Concepts II	W1	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on thermodynamics, fluid mechanics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 222.	In Person Learning	Arranged	Arranged
MECH_V 225-2AB	MECH_V	225	2AB	Integration of Engineering Concepts II	W2	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on thermodynamics, fluid mechanics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 222.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MECH_V 225-2CD	MECH_V	225	2CD	Integration of Engineering Concepts II	W2	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on thermodynamics, fluid mechanics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 222.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MECH_V 225-2RM	MECH_V	225	2RM	Integration of Engineering Concepts II	W2	Integration of the theory and practice of Mechanical Engineering to illustrate the commonality and conceptual connectivity of seemingly different technical areas. Emphasis on thermodynamics, fluid mechanics, and mathematics. This course is not eligible for Credit/D/Fail grading. [1-0-1] Corequisite: MECH 222.	In Person Learning	Arranged	Arranged
MECH_V 226-001	MECH_V	226	001	Technical Communication for Mechanical Engineers	W1-2	Written and oral communication. Preparation of design reports, business correspondence, verbal, online, and visual presentation of technical material. Restricted to students in the second year of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-1;1-0-1] Prerequisite: A score of 65% or higher in one of ENGL 112, WRDS 150, APSC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.	In Person Learning	Arranged	Arranged
MECH_V 226-DNU_TOB	MECH_V	226	DNU_TOB	Technical Communication for Mechanical Engineers	W1-2	Written and oral communication. Preparation of design reports, business correspondence, verbal, online, and visual presentation of technical material. Restricted to students in the second year of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-1;1-0-1] Prerequisite: A score of 65% or higher in one of ENGL 112, WRDS 150, APSC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.	In Person Learning	Arranged	Arranged
MECH_V 226-TOA	MECH_V	226	TOA	Technical Communication for Mechanical Engineers	W1-2	Written and oral communication. Preparation of design reports, business correspondence, verbal, online, and visual presentation of technical material. Restricted to students in the second year of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-1;1-0-1] Prerequisite: A score of 65% or higher in one of ENGL 112, WRDS 150, APSC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MECH_V 226-TOB	MECH_V	226	TOB	Technical Communication for Mechanical Engineers	W1-2	Written and oral communication. Preparation of design reports, business correspondence, verbal, online, and visual presentation of technical material. Restricted to students in the second year of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-1;1-0-1] Prerequisite: A score of 65% or higher in one of ENGL 112, WRDS 150, APSC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
MECH_V 226-TOC	MECH_V	226	TOC	Technical Communication for Mechanical Engineers	W1-2	Written and oral communication. Preparation of design reports, business correspondence, verbal, online, and visual presentation of technical material. Restricted to students in the second year of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-1;1-0-1] Prerequisite: A score of 65% or higher in one of ENGL 112, WRDS 150, APSC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MECH_V 226-TOD	MECH_V	226	TOD	Technical Communication for Mechanical Engineers	W1-2	Written and oral communication. Preparation of design reports, business correspondence, verbal, online, and visual presentation of technical material. Restricted to students in the second year of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-1;1-0-1] Prerequisite: A score of 65% or higher in one of ENGL 112, WRDS 150, APSC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
MECH_V 260-101	MECH_V	260	101	Introduction to Mechanics of Materials	W1	Statically determinate frames and trusses; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions, Mohr's circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MECH_V 260-201	MECH_V	260	201	Introduction to Mechanics of Materials	W2	Statically determinate frames and trusses; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions, Mohr's circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 260-202	MECH_V	260	202	Introduction to Mechanics of Materials	W2	Statically determinate frames and trusses; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions, Mohr's circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.	Online Learning	Tue Thu	7:30 p.m. - 9:00 p.m.
MECH_V 260-T1A	MECH_V	260	T1A	Introduction to Mechanics of Materials	W1	Statically determinate frames and trusses; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions, Mohr's circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.

MECH_V 260-T2A	MECH_V	260	T2A	Introduction to Mechanics of Materials	W2	Statically determinate frames and trusses; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions, Mohr's circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
MECH_V 260-T2B	MECH_V	260	T2B	Introduction to Mechanics of Materials	W2	Statically determinate frames and trusses; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions, Mohr's circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.	Online Learning	Wed	7:30 p.m. - 8:30 p.m.
MECH_V 280-201	MECH_V	280	201	Introduction to Fluid Mechanics	W2	Fluid properties; statics; kinematics, dynamics, energy, and momentum principles for control volumes; dimensional analysis and similarity; laminar and turbulent flow; pipe flow; principles of centrifugal pumps. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 152, PHYS 170 and one of MATH 217, MATH 253; and either (a) PHYS 131 and one of PHYS 108, PHYS 118; or (b) PHYS 153 or (c) all of PHYS 157, PHYS 158, PHYS 159.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MECH_V 280-T2A	MECH_V	280	T2A	Introduction to Fluid Mechanics	W2	Fluid properties; statics; kinematics, dynamics, energy, and momentum principles for control volumes; dimensional analysis and similarity; laminar and turbulent flow; pipe flow; principles of centrifugal pumps. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 152, PHYS 170 and one of MATH 217, MATH 253; and either (a) PHYS 131 and one of PHYS 108, PHYS 118; or (b) PHYS 153 or (c) all of PHYS 157, PHYS 158, PHYS 159.	In Person Learning	Mon Fri	11:00 a.m. - 12:00 p.m.
MECH_V 305-201	MECH_V	305	201	Data Analysis and Mechanical Engineering Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials, heat transfer, and fluid dynamics. Instrumentation, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-5-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MECH_V 305-L2A	MECH_V	305	L2A	Data Analysis and Mechanical Engineering Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials, heat transfer, and fluid dynamics. Instrumentation, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-5-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Mon (Alternate weeks)	3:00 p.m. - 4:00 p.m.
MECH_V 305-L2B	MECH_V	305	L2B	Data Analysis and Mechanical Engineering Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials, heat transfer, and fluid dynamics. Instrumentation, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-5-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Mon (Alternate weeks)	3:00 p.m. - 4:00 p.m.
MECH_V 305-L2C	MECH_V	305	L2C	Data Analysis and Mechanical Engineering Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials, heat transfer, and fluid dynamics. Instrumentation, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-5-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
MECH_V 305-L2D	MECH_V	305	L2D	Data Analysis and Mechanical Engineering Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials, heat transfer, and fluid dynamics. Instrumentation, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-5-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
MECH_V 306-201	MECH_V	306	201	Data Analysis and Mechatronics Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials and heat transfer. Instrumentation, data acquisition, and data manipulation using modern computational tools. Common mechanical devices. For students in the Mechatronics Option only. This course is not eligible for Credit/D/Fail grading. [3-3*-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MECH_V 306-L2A	MECH_V	306	L2A	Data Analysis and Mechatronics Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials and heat transfer. Instrumentation, data acquisition, and data manipulation using modern computational tools. Common mechanical devices. For students in the Mechatronics Option only. This course is not eligible for Credit/D/Fail grading. [3-3*-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.
MECH_V 306-L2B	MECH_V	306	L2B	Data Analysis and Mechatronics Laboratories	W2	The use of probability and statistical methods for engineering applications. Mechanics of materials and heat transfer. Instrumentation, data acquisition, and data manipulation using modern computational tools. Common mechanical devices. For students in the Mechatronics Option only. This course is not eligible for Credit/D/Fail grading. [3-3*-1*] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
MECH_V 325-101	MECH_V	325	101	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MECH_V 325-102	MECH_V	325	102	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MECH_V 325-T1A	MECH_V	325	T1A	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MECH_V 325-T1B	MECH_V	325	T1B	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MECH_V 325-T1C	MECH_V	325	T1C	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MECH_V 325-T1D	MECH_V	325	T1D	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.

MECH_V 325-T1E	MECH_V	325	T1E	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MECH_V 325-T1F	MECH_V	325	T1F	Machine Design	W1	Selection of flexible drives, bearings, fluid power system components, and couplings. Design of shafts, bolted joints and power screws. Design and selection of gears, gear trains, and mechanisms. Recommended co-requisite: MECH 360. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: One of MECH 223, MECH 260.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MECH_V 327-101	MECH_V	327	101	Thermodynamics II	W1	Air standard and vapor cycles; first and second law of cycles. Exergy. Gas mixtures. Energy conservation. Equilibrium. Reacting systems. Application to thermofluid systems such as power plants. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MECH_V 327-T1A	MECH_V	327	T1A	Thermodynamics II	W1	Air standard and vapor cycles; first and second law of cycles. Exergy. Gas mixtures. Energy conservation. Equilibrium. Reacting systems. Application to thermofluid systems such as power plants. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
MECH_V 327-T1B	MECH_V	327	T1B	Thermodynamics II	W1	Air standard and vapor cycles; first and second law of cycles. Exergy. Gas mixtures. Energy conservation. Equilibrium. Reacting systems. Application to thermofluid systems such as power plants. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
MECH_V 328-101	MECH_V	328	101	Mechanical Engineering Design Project	W1	Applying the design process, making educated assumptions and decisions, and working in teams to provide a new mechanical design. Weekly lecture discussing product development and various factors affecting the design. This course is not eligible for Credit/D/Fail grading. [1-4-1] Prerequisite: MECH 223. (And third year standing in Mechanical Engineering)	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MECH_V 328-L1A	MECH_V	328	L1A	Mechanical Engineering Design Project	W1	Applying the design process, making educated assumptions and decisions, and working in teams to provide a new mechanical design. Weekly lecture discussing product development and various factors affecting the design. This course is not eligible for Credit/D/Fail grading. [1-4-1] Prerequisite: MECH 223. (And third year standing in Mechanical Engineering)	In Person Learning	Mon Wed	12:00 p.m. - 2:00 p.m.
MECH_V 328-T1A	MECH_V	328	T1A	Mechanical Engineering Design Project	W1	Applying the design process, making educated assumptions and decisions, and working in teams to provide a new mechanical design. Weekly lecture discussing product development and various factors affecting the design. This course is not eligible for Credit/D/Fail grading. [1-4-1] Prerequisite: MECH 223. (And third year standing in Mechanical Engineering)	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MECH_V 359-201	MECH_V	359	201	Computational Methods for Mechanical Engineering	W2	Computational methods for solving mechanical engineering problems. Numerical computation of linear and nonlinear algebraic equations; interpolation and extrapolation; numerical integration and differentiation; numerical solution of differential equations. Credit will be granted for only one of MECH 358 or MECH 359. [3-1-1] Prerequisite: All of MECH 224, MECH 225.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MECH_V 359-L2A	MECH_V	359	L2A	Computational Methods for Mechanical Engineering	W2	Computational methods for solving mechanical engineering problems. Numerical computation of linear and nonlinear algebraic equations; interpolation and extrapolation; numerical integration and differentiation; numerical solution of differential equations. Credit will be granted for only one of MECH 358 or MECH 359. [3-1-1] Prerequisite: All of MECH 224, MECH 225.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
MECH_V 359-L2B	MECH_V	359	L2B	Computational Methods for Mechanical Engineering	W2	Computational methods for solving mechanical engineering problems. Numerical computation of linear and nonlinear algebraic equations; interpolation and extrapolation; numerical integration and differentiation; numerical solution of differential equations. Credit will be granted for only one of MECH 358 or MECH 359. [3-1-1] Prerequisite: All of MECH 224, MECH 225.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
MECH_V 359-T2A	MECH_V	359	T2A	Computational Methods for Mechanical Engineering	W2	Computational methods for solving mechanical engineering problems. Numerical computation of linear and nonlinear algebraic equations; interpolation and extrapolation; numerical integration and differentiation; numerical solution of differential equations. Credit will be granted for only one of MECH 358 or MECH 359. [3-1-1] Prerequisite: All of MECH 224, MECH 225.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MECH_V 360-101	MECH_V	360	101	Mechanics of Materials	W1	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castiglano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon Fri	4:00 p.m. - 5:00 p.m.
MECH_V 360-102	MECH_V	360	102	Mechanics of Materials	W1	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castiglano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
MECH_V 360-201	MECH_V	360	201	Mechanics of Materials	W2	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castiglano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
MECH_V 360-T1A	MECH_V	360	T1A	Mechanics of Materials	W1	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castiglano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Tue	8:00 a.m. - 9:00 a.m.
MECH_V 360-T1B	MECH_V	360	T1B	Mechanics of Materials	W1	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castiglano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Thu	8:00 a.m. - 9:00 a.m.
MECH_V 360-T1C	MECH_V	360	T1C	Mechanics of Materials	W1	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castiglano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.

MECH_V 360-T1D	MECH_V	360	T1D	Mechanics of Materials	W1	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castigliano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MECH_V 360-T2A	MECH_V	360	T2A	Mechanics of Materials	W2	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castigliano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MECH_V 360-T2B	MECH_V	360	T2B	Mechanics of Materials	W2	Beam deflections, singularity functions; use of tabulated solutions; column buckling; Castigliano's theorem, statically indeterminate beams, bending of beams with asymmetric cross-sections, shear centre; principal stresses and stress invariants in three dimensions. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MECH_V 366-101	MECH_V	366	101	Modelling of Mechatronic Systems	W1	Modelling of mechanical, electrical, thermal, fluid elements and mixed mechatronic systems. Signal processing, signal conditioning. Sensors, data acquisition systems, actuators. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
MECH_V 366-L1A	MECH_V	366	L1A	Modelling of Mechatronic Systems	W1	Modelling of mechanical, electrical, thermal, fluid elements and mixed mechatronic systems. Signal processing, signal conditioning. Sensors, data acquisition systems, actuators. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Fri	3:00 p.m. - 6:00 p.m.
MECH_V 366-L1B	MECH_V	366	L1B	Modelling of Mechatronic Systems	W1	Modelling of mechanical, electrical, thermal, fluid elements and mixed mechatronic systems. Signal processing, signal conditioning. Sensors, data acquisition systems, actuators. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
MECH_V 366-T1B	MECH_V	366	T1B	Modelling of Mechatronic Systems	W1	Modelling of mechanical, electrical, thermal, fluid elements and mixed mechatronic systems. Signal processing, signal conditioning. Sensors, data acquisition systems, actuators. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
MECH_V 368-101	MECH_V	368	101	Engineering Measurements and Instrumentation	W1	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
MECH_V 368-201	MECH_V	368	201	Engineering Measurements and Instrumentation	W2	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Mon Wed	12:00 p.m. - 1:00 p.m.
MECH_V 368-L1A	MECH_V	368	L1A	Engineering Measurements and Instrumentation	W1	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
MECH_V 368-L1B	MECH_V	368	L1B	Engineering Measurements and Instrumentation	W1	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
MECH_V 368-L1C	MECH_V	368	L1C	Engineering Measurements and Instrumentation	W1	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
MECH_V 368-L2A	MECH_V	368	L2A	Engineering Measurements and Instrumentation	W2	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
MECH_V 368-L2B	MECH_V	368	L2B	Engineering Measurements and Instrumentation	W2	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
MECH_V 368-T1A	MECH_V	368	T1A	Engineering Measurements and Instrumentation	W1	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MECH_V 368-T2A	MECH_V	368	T2A	Engineering Measurements and Instrumentation	W2	Industrial measurement needs including: architecture of electronic instrumentation systems; electrical representation of physical quantities; sensors and actuators; analog signal processing using linear and non-linear circuits; computer-based readout including programming for user-interface and data acquisition. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: Either (a) two of MECH 220, MECH 224, ELEC 203 or (b) all of MANU 230, ELEC 203.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MECH_V 375-101	MECH_V	375	101	Heat Transfer	W1	Steady and transient conduction. Radiation heat transfer. Convective heat and mass transfer in pipes and from external surfaces. Design of heat exchangers. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257, PHYS 203 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.

MECH_V 375-201	MECH_V	375	201	Heat Transfer	W2	Steady and transient conduction. Radiation heat transfer. Convective heat and mass transfer in pipes and from external surfaces. Design of heat exchangers. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257, PHYS 203 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
MECH_V 375-T1A	MECH_V	375	T1A	Heat Transfer	W1	Steady and transient conduction. Radiation heat transfer. Convective heat and mass transfer in pipes and from external surfaces. Design of heat exchangers. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257, PHYS 203 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.	
MECH_V 375-T2A	MECH_V	375	T2A	Heat Transfer	W2	Steady and transient conduction. Radiation heat transfer. Convective heat and mass transfer in pipes and from external surfaces. Design of heat exchangers. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257, PHYS 203 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.	
MECH_V 380-201	MECH_V	380	201	Fluid Dynamics	W2	Review of principles, compressible flow, potential flow, simple laminar viscous flow, boundary layers, flow around bluff bodies. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) MATH 255 and one of CHBE 251, CIVL 215, MECH 280 and one of CHBE 241, ENPH 257, PHYS 203.	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.	
MECH_V 380-T2A	MECH_V	380	T2A	Fluid Dynamics	W2	Review of principles, compressible flow, potential flow, simple laminar viscous flow, boundary layers, flow around bluff bodies. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) MATH 255 and one of CHBE 251, CIVL 215, MECH 280 and one of CHBE 241, ENPH 257, PHYS 203.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.	
MECH_V 380-T2B	MECH_V	380	T2B	Fluid Dynamics	W2	Review of principles, compressible flow, potential flow, simple laminar viscous flow, boundary layers, flow around bluff bodies. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) MATH 255 and one of CHBE 251, CIVL 215, MECH 280 and one of CHBE 241, ENPH 257, PHYS 203.	In Person Learning	Arranged	Arranged	
MECH_V 392-101	MECH_V	392	101	Manufacturing Processes	W1	Manufacturing characteristics of materials and their control. Metal forming processes, plastic deformations, rolling, forging, drawing, extrusion, sheet metal forming. Machining processes and machine tools, turning, milling, drilling, grinding. Metal fabrication, welding and casting. An introduction to process planning. This course is not eligible for Credit/D/Fail grading. [2-0-0]	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.	
MECH_V 400-201	MECH_V	400	201	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.	
MECH_V 400-T2A	MECH_V	400	T2A	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Mon	1:30 p.m. - 3:00 p.m.	
MECH_V 400-T2B	MECH_V	400	T2B	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Mon	1:30 p.m. - 3:00 p.m.	
MECH_V 400-T2C	MECH_V	400	T2C	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
MECH_V 400-T2D	MECH_V	400	T2D	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
MECH_V 400-T2E	MECH_V	400	T2E	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
MECH_V 400-T2F	MECH_V	400	T2F	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
MECH_V 400-T2G	MECH_V	400	T2G	Professionalism and Ethics in Engineering	W2	Professionalism, ethical frameworks, decolonization, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.	
MECH_V 410-C_101	MECH_V	410	C	C_101	Special Topics in Mechanical Engineering	W1	Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 410-D_101	MECH_V	410	D	D_101	Special Topics in Mechanical Engineering	W1	Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MECH_V 410-F_201	MECH_V	410	F	F_201	Special Topics in Mechanical Engineering	W2	Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 410-Q_101	MECH_V	410	Q	Q_101	Special Topics in Mechanical Engineering	W1	Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
MECH_V 411-101	MECH_V	411	101	Air Pollution, Technology and Society	W1	Causes and effects of air pollution in the context of technology and society. Topics include: impact of air pollutants on air quality and climate, atmospheric science, public policy, collective action, environmental justice, science communication, economic externalities, and ethical engineering design. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Second-year standing.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
MECH_V 411-201	MECH_V	411	201	Air Pollution, Technology and Society	W1	Causes and effects of air pollution in the context of technology and society. Topics include: impact of air pollutants on air quality and climate, atmospheric science, public policy, collective action, environmental justice, science communication, economic externalities, and ethical engineering design. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Second-year standing.	In Person Learning	Arranged	Arranged	

MECH_V 420-101	MECH_V	420	101	Sensors and Actuators	W1	Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning methods; selection and sizing of actuators. [2-2*-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MECH_V 420-L1A	MECH_V	420	L1A	Sensors and Actuators	W1	Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning methods; selection and sizing of actuators. [2-2*-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343.	In Person Learning	Wed (Alternate weeks)	10:00 a.m. - 12:00 p.m.
MECH_V 420-L1B	MECH_V	420	L1B	Sensors and Actuators	W1	Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning methods; selection and sizing of actuators. [2-2*-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343.	In Person Learning	Wed (Alternate weeks)	4:00 p.m. - 6:00 p.m.
MECH_V 420-L1C	MECH_V	420	L1C	Sensors and Actuators	W1	Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning methods; selection and sizing of actuators. [2-2*-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343.	In Person Learning	Fri (Alternate weeks)	4:00 p.m. - 6:00 p.m.
MECH_V 420-L1D	MECH_V	420	L1D	Sensors and Actuators	W1	Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning methods; selection and sizing of actuators. [2-2*-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343.	In Person Learning	Arranged	Arranged
MECH_V 420-T1A	MECH_V	420	T1A	Sensors and Actuators	W1	Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning methods; selection and sizing of actuators. [2-2*-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343.	In Person Learning	Arranged	Arranged
MECH_V 421-201	MECH_V	421	201	Mechatronics System Instrumentation	W2	Architecture of mechatronics devices; integration of mechanical, electronics, sensors, actuators, computer and real time software systems; PLC and PC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
MECH_V 421-L2A	MECH_V	421	L2A	Mechatronics System Instrumentation	W2	Architecture of mechatronics devices; integration of mechanical, electronics, sensors, actuators, computer and real time software systems; PLC and PC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
MECH_V 421-L2B	MECH_V	421	L2B	Mechatronics System Instrumentation	W2	Architecture of mechatronics devices; integration of mechanical, electronics, sensors, actuators, computer and real time software systems; PLC and PC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
MECH_V 421-L2C	MECH_V	421	L2C	Mechatronics System Instrumentation	W2	Architecture of mechatronics devices; integration of mechanical, electronics, sensors, actuators, computer and real time software systems; PLC and PC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
MECH_V 421-L2D	MECH_V	421	L2D	Mechatronics System Instrumentation	W2	Architecture of mechatronics devices; integration of mechanical, electronics, sensors, actuators, computer and real time software systems; PLC and PC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
MECH_V 421-L2E	MECH_V	421	L2E	Mechatronics System Instrumentation	W2	Architecture of mechatronics devices; integration of mechanical, electronics, sensors, actuators, computer and real time software systems; PLC and PC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MECH_V 421-T2A	MECH_V	421	T2A	Mechatronics System Instrumentation	W2	Architecture of mechatronics devices; integration of mechanical, electronics, sensors, actuators, computer and real time software systems; PLC and PC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
MECH_V 422-201	MECH_V	422	201	Introduction to Microelectromechanical Systems	W2	Fundamentals of MEMS (MicroElectroMechanical Systems). Microfabrication of MEMS with solid-state technology. LIGA and micro injection molding. Physics of MEMS. Operational principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: One of MECH 224, ELEC 204 and all of MECH 360, MECH 368.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
MECH_V 422-L2A	MECH_V	422	L2A	Introduction to Microelectromechanical Systems	W2	Fundamentals of MEMS (MicroElectroMechanical Systems). Microfabrication of MEMS with solid-state technology. LIGA and micro injection molding. Physics of MEMS. Operational principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: One of MECH 224, ELEC 204 and all of MECH 360, MECH 368.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
MECH_V 423-101	MECH_V	423	101	Mechatronic Product Design	W1	Design of mechatronic systems for industrial and human-centric applications; compliant structures; electronic circuits to interface with sensors and actuators; embedded systems; precision timing and control; data acquisition and processing; user interfaces; and product innovation. This course is not eligible for Credit/D/Fail grading. [2-3-2] Prerequisite: All of MECH 366, ELEC 302, CPEN 312, and 4th year standing. Corequisite: CPEN 333.	In Person Learning	Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 423-L1A	MECH_V	423	L1A	Mechatronic Product Design	W1	Design of mechatronic systems for industrial and human-centric applications; compliant structures; electronic circuits to interface with sensors and actuators; embedded systems; precision timing and control; data acquisition and processing; user interfaces; and product innovation. This course is not eligible for Credit/D/Fail grading. [2-3-2] Prerequisite: All of MECH 366, ELEC 302, CPEN 312, and 4th year standing. Corequisite: CPEN 333.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
MECH_V 423-T1A	MECH_V	423	T1A	Mechatronic Product Design	W1	Design of mechatronic systems for industrial and human-centric applications; compliant structures; electronic circuits to interface with sensors and actuators; embedded systems; precision timing and control; data acquisition and processing; user interfaces; and product innovation. This course is not eligible for Credit/D/Fail grading. [2-3-2] Prerequisite: All of MECH 366, ELEC 302, CPEN 312, and 4th year standing. Corequisite: CPEN 333.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
MECH_V 426-101	MECH_V	426	101	Mechanical Design	W1	Design of shafts and welded joints. Fatigue and fracture considerations in design: failure types, failure under static and dynamic loading, fatigue failure, crack initiation, and propagation. Introduction to the FEM in mechanical design. Students can only receive credit for one of MECH 326 or MECH 426. [2-0-3] Prerequisite: One of MECH 223, MECH 260. Corequisite: MECH 360.	In Person Learning	Mon Wed	3:00 p.m. - 4:00 p.m.
MECH_V 426-T1A	MECH_V	426	T1A	Mechanical Design	W1	Design of shafts and welded joints. Fatigue and fracture considerations in design: failure types, failure under static and dynamic loading, fatigue failure, crack initiation, and propagation. Introduction to the FEM in mechanical design. Students can only receive credit for one of MECH 326 or MECH 426. [2-0-3] Prerequisite: One of MECH 223, MECH 260. Corequisite: MECH 360.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

MECH_V 426-T1B	MECH_V	426	T1B	Mechanical Design	W1	Design of shafts and welded joints. Fatigue and fracture considerations in design: failure types, failure under static and dynamic loading, fatigue failure, crack initiation, and propagation. Introduction to the FEM in mechanical design. Students can only receive credit for one of MECH 326 or MECH 426. [2-0-3] Prerequisite: One of MECH 223, MECH 260. Corequisite: MECH 360.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MECH_V 431-101	MECH_V	431	101	Engineering Economics	W1	Discounted cash flows. Sources of funds, cost of capital. Effects of depreciation, taxes, inflation. Evaluation and comparison of economic models for engineering projects. Replacement decisions. Public project analysis. Risk analysis. Project control, inventory analysis, simulation. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Fri	10:00 a.m. - 11:00 a.m.
MECH_V 431-201	MECH_V	431	201	Engineering Economics	W1	Discounted cash flows. Sources of funds, cost of capital. Effects of depreciation, taxes, inflation. Evaluation and comparison of economic models for engineering projects. Replacement decisions. Public project analysis. Risk analysis. Project control, inventory analysis, simulation. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
MECH_V 433-101	MECH_V	433	101	Biofluids	W1	Review of principles, Navier-Stokes equations, biorheology, circulatory biofluid mechanics, synovial fluid in joints, biofluid dynamics of the human brain, respiratory biofluid mechanics, flow and pressure measurement techniques in human body. Credit will be granted for only one of MECH 433 or MECH 533. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of MATH 255, MATH 256 and one of CHBE 251, CIVL 215, MECH 280. Equivalency: MECH533	In Person Learning	Wed Fri	5:00 p.m. - 6:30 p.m.
MECH_V 433-T1A	MECH_V	433	T1A	Biofluids	W1	Review of principles, Navier-Stokes equations, biorheology, circulatory biofluid mechanics, synovial fluid in joints, biofluid dynamics of the human brain, respiratory biofluid mechanics, flow and pressure measurement techniques in human body. Credit will be granted for only one of MECH 433 or MECH 533. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of MATH 255, MATH 256 and one of CHBE 251, CIVL 215, MECH 280. Equivalency: MECH533	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
MECH_V 435-101	MECH_V	435	101	Orthopaedic Biomechanics	W1	Musculoskeletal anatomy. Muscle and joint loads. Muscle mechanics. Musculoskeletal dynamics. Gait. Tissue mechanics of tendon, ligament, articular cartilage, and bone. Biomaterials. Application examples in orthopaedics including joint replacement and fracture fixation. Credit will be granted for only one of MECH 435 or MECH 535. Students who have received credit for BMEG 230 or 330 cannot also receive credit for MECH 435. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 221 or (b) all of APSC 278, MECH 260. Equivalency: MECH535	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
MECH_V 435-T1A	MECH_V	435	T1A	Orthopaedic Biomechanics	W1	Musculoskeletal anatomy. Muscle and joint loads. Muscle mechanics. Musculoskeletal dynamics. Gait. Tissue mechanics of tendon, ligament, articular cartilage, and bone. Biomaterials. Application examples in orthopaedics including joint replacement and fracture fixation. Credit will be granted for only one of MECH 435 or MECH 535. Students who have received credit for BMEG 230 or 330 cannot also receive credit for MECH 435. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 221 or (b) all of APSC 278, MECH 260. Equivalency: MECH535	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MECH_V 436-101	MECH_V	436	101	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, spine, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Recommended pre-requisites: MECH 224, or all of MECH 260 and BMEG 330, or all of MECH 260. Credit will be granted for only one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading. [3-0-1] Equivalency: MECH536	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 436-201	MECH_V	436	201	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, spine, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Recommended pre-requisites: MECH 224, or all of MECH 260 and BMEG 330, or all of MECH 260. Credit will be granted for only one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading. [3-0-1] Equivalency: MECH536	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 436-T1A	MECH_V	436	T1A	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, spine, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Recommended pre-requisites: MECH 224, or all of MECH 260 and BMEG 330, or all of MECH 260. Credit will be granted for only one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading. [3-0-1] Equivalency: MECH536	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
MECH_V 436-T2A	MECH_V	436	T2A	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, spine, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Recommended pre-requisites: MECH 224, or all of MECH 260 and BMEG 330, or all of MECH 260. Credit will be granted for only one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading. [3-0-1] Equivalency: MECH536	In Person Learning	Arranged	Arranged
MECH_V 439-201	MECH_V	439	201	Biomechanics Research	W2	Seminar in Biomechanics research. This course is not eligible for Credit/D/Fail grading. [1-0-0]	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MECH_V 445-201	MECH_V	445	201	Fuel Cell Systems	W2	Energy system architecture and electrochemical energy conversion: fuel cell thermodynamics and electrochemistry; Proton Exchange Membrane Fuel Cells (PMFCs) and Solid Oxide Fuel Cells (SOFCs); hydrogen production, storage, and distribution. Recommended pre-requisites: MECH 327 and MECH 375. Credit will be granted for only one of MECH 445 or MECH 577. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280. Equivalency: MECH577	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 445-T2A	MECH_V	445	T2A	Fuel Cell Systems	W2	Energy system architecture and electrochemical energy conversion: fuel cell thermodynamics and electrochemistry; Proton Exchange Membrane Fuel Cells (PMFCs) and Solid Oxide Fuel Cells (SOFCs); hydrogen production, storage, and distribution. Recommended pre-requisites: MECH 327 and MECH 375. Credit will be granted for only one of MECH 445 or MECH 577. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280. Equivalency: MECH577	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.



MECH_V 457-001	MECH_V	457	001	Flex Capstone Design Project	W1-2	A capstone design project designed to give students experience in the design/development of practical mechanical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in Mechanical Engineering. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
MECH_V 457-LOA	MECH_V	457	LOA	Flex Capstone Design Project	W1-2	A capstone design project designed to give students experience in the design/development of practical mechanical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in Mechanical Engineering. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
MECH_V 457-TOA	MECH_V	457	TOA	Flex Capstone Design Project	W1-2	A capstone design project designed to give students experience in the design/development of practical mechanical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in Mechanical Engineering. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
MECH_V 458-001	MECH_V	458	001	Mechatronics Capstone Design Project	W1-2	A capstone design program designed to give students experience in the design/development of practical mechanical and mechatronics devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in the Mechatronics Option. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
MECH_V 458-LOA	MECH_V	458	LOA	Mechatronics Capstone Design Project	W1-2	A capstone design program designed to give students experience in the design/development of practical mechanical and mechatronics devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in the Mechatronics Option. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
MECH_V 458-TOA	MECH_V	458	TOA	Mechatronics Capstone Design Project	W1-2	A capstone design program designed to give students experience in the design/development of practical mechanical and mechatronics devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in the Mechatronics Option. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
MECH_V 459-001	MECH_V	459	001	Biomedical Biomechanics and Medical Devices Capstone Design Project	W1-2	A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. For students in the Biomechanics and Medical Devices Option only. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
MECH_V 459-LOA	MECH_V	459	LOA	Biomedical Biomechanics and Medical Devices Capstone Design Project	W1-2	A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. For students in the Biomechanics and Medical Devices Option only. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
MECH_V 459-TOA	MECH_V	459	TOA	Biomedical Biomechanics and Medical Devices Capstone Design Project	W1-2	A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. For students in the Biomechanics and Medical Devices Option only. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2-] Prerequisite: All of MECH 325, MECH 328, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
MECH_V 462-101	MECH_V	462	101	Finite Element Analysis	W1	Theory and element selection. Virtual work and weighted residual formulation. Linear elastic analysis. Heat transfer analysis. Isoparametric elements. Development of computer programs for simple problems. Utilization of existing computer packages. Application to mechanical engineering problems. Credit will be granted for only one of MECH 462 or MECH 514. This course is not eligible for Credit/D/Fail grading. [2-3*-0] Prerequisite: Either (a) all of MECH 360, MECH 375 or (b) all of MECH 360, MTRL 264. Equivalency: MECH514	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
MECH_V 462-L1A	MECH_V	462	L1A	Finite Element Analysis	W1	Theory and element selection. Virtual work and weighted residual formulation. Linear elastic analysis. Heat transfer analysis. Isoparametric elements. Development of computer programs for simple problems. Utilization of existing computer packages. Application to mechanical engineering problems. Credit will be granted for only one of MECH 462 or MECH 514. This course is not eligible for Credit/D/Fail grading. [2-3*-0] Prerequisite: Either (a) all of MECH 360, MECH 375 or (b) all of MECH 360, MTRL 264. Equivalency: MECH514	In Person Learning	Mon	4:00 p.m. - 5:30 p.m.
MECH_V 463-101	MECH_V	463	101	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.

MECH_V 463-102	MECH_V	463	102	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MECH_V 463-L1A	MECH_V	463	L1A	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Arranged	Arranged
MECH_V 463-L1B	MECH_V	463	L1B	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Arranged	Arranged
MECH_V 463-T1A	MECH_V	463	T1A	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
MECH_V 463-T1B	MECH_V	463	T1B	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
MECH_V 463-T1C	MECH_V	463	T1C	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MECH_V 463-T1D	MECH_V	463	T1D	Mechanical Vibrations	W1	Theory of vibration of mechanical systems. Undamped 1 degree of freedom vibration, forced vibrations and resonance, damping, multiple degree of freedom systems, mode shapes and orthogonality, continuous systems, vibration measuring instruments and frequency spectrum analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MECH_V 464-201	MECH_V	464	201	Industrial Robotics	W2	Definition and classification of industrial robotic devices. Selection and implementation issues. Workcell environments. Forward and inverse kinematics, dynamics, trajectory planning. Sensing and manipulation tasks. Control architectures. Recommended co-requisite: MECH 466 or MECH 467. Credit will be granted for only one of ELEC 442, EECE 571R, EECE 589, MECH 464 or MECH 563. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 464-T2A	MECH_V	464	T2A	Industrial Robotics	W2	Definition and classification of industrial robotic devices. Selection and implementation issues. Workcell environments. Forward and inverse kinematics, dynamics, trajectory planning. Sensing and manipulation tasks. Control architectures. Recommended co-requisite: MECH 466 or MECH 467. Credit will be granted for only one of ELEC 442, EECE 571R, EECE 589, MECH 464 or MECH 563. This course is not eligible for Credit/D/Fail grading. [3-0-1]	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
MECH_V 466-201	MECH_V	466	201	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MECH_V 466-202	MECH_V	466	202	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
MECH_V 466-L2A	MECH_V	466	L2A	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Mon (Alternate weeks)	5:00 p.m. - 8:00 p.m.
MECH_V 466-L2B	MECH_V	466	L2B	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Mon (Alternate weeks)	5:00 p.m. - 8:00 p.m.
MECH_V 466-L2C	MECH_V	466	L2C	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 8:00 p.m.

MECH_V 466-L2D	MECH_V	466	L2D	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Wed (Alternate weeks)	5:00 p.m. - 8:00 p.m.
MECH_V 466-L2E	MECH_V	466	L2E	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Fri (Alternate weeks)	5:00 p.m. - 8:00 p.m.
MECH_V 466-L2F	MECH_V	466	L2F	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Fri (Alternate weeks)	5:00 p.m. - 8:00 p.m.
MECH_V 466-L2G	MECH_V	466	L2G	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Arranged	Arranged
MECH_V 466-L2H	MECH_V	466	L2H	Automatic Control	W2	Process and system characteristics; transient response; the closed loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 463. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ELEC 204, EECE 251, EECE 253; or (c) all of ELEC 204, ELEC 221, ENPH 270, MATH 255.	In Person Learning	Arranged	Arranged
MECH_V 467-101	MECH_V	467	101	Computer Control of Mechatronics Systems	W1	Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domain, absolute and relative stability, laboratory examples of Mechatronic systems design. Credit will be granted for only one of MECH 467 or MECH 541. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 366, MANU 386. Equivalency: MECH541	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MECH_V 467-201	MECH_V	467	201	Computer Control of Mechatronics Systems	W2	Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domain, absolute and relative stability, laboratory examples of Mechatronic systems design. Credit will be granted for only one of MECH 467 or MECH 541. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 366, MANU 386. Equivalency: MECH541	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
MECH_V 467-L1A	MECH_V	467	L1A	Computer Control of Mechatronics Systems	W1	Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domain, absolute and relative stability, laboratory examples of Mechatronic systems design. Credit will be granted for only one of MECH 467 or MECH 541. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 366, MANU 386. Equivalency: MECH541	In Person Learning	Arranged	Arranged
MECH_V 467-L2A	MECH_V	467	L2A	Computer Control of Mechatronics Systems	W2	Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domain, absolute and relative stability, laboratory examples of Mechatronic systems design. Credit will be granted for only one of MECH 467 or MECH 541. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 366, MANU 386. Equivalency: MECH541	In Person Learning	Arranged	Arranged
MECH_V 467-T1A	MECH_V	467	T1A	Computer Control of Mechatronics Systems	W1	Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domain, absolute and relative stability, laboratory examples of Mechatronic systems design. Credit will be granted for only one of MECH 467 or MECH 541. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 366, MANU 386. Equivalency: MECH541	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
MECH_V 467-T2A	MECH_V	467	T2A	Computer Control of Mechatronics Systems	W2	Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domain, absolute and relative stability, laboratory examples of Mechatronic systems design. Credit will be granted for only one of MECH 467 or MECH 541. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 366, MANU 386. Equivalency: MECH541	In Person Learning	Mon	4:30 p.m. - 6:30 p.m.
MECH_V 468-201	MECH_V	468	201	Modern Control Engineering	W2	Introduction to state space control methods for linear systems including modal control, controllability, observability, linear quadratic regulators, optimal control. Recommended co-requisite: MECH 366 or MECH 466. Credit will be granted for only one of MECH 468 or MECH 509. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MECH_V 470-101	MECH_V	470	101	Energy Conversion Systems	W1	Energy supply and demand. Energy conversion chain. Electrical power generation using thermal power plants, renewable energy, and fuel cells. Rankine cycle steam power. Brayton cycle gas turbine power plants, intercooling, reheat, and regeneration. Internal combustion engines. Exhaust gas after treatment. Combined and binary cycles. Nuclear power. Recommended pre-requisites: All of MECH 327, MECH 375. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Arranged	Arranged

MECH_V 470-201	MECH_V	470	201	Energy Conversion Systems	W2	Energy supply and demand. Energy conversion chain. Electrical power generation using thermal power plants, renewable energy, and fuel cells. Rankine cycle steam power. Brayton cycle gas turbine power plants, intercooling, reheat, and regeneration. Internal combustion engines. Exhaust gas after treatment. Combined and binary cycles. Nuclear power. Recommended pre-requisites: All of MECH 327, MECH 375. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MECH_V 470-T1A	MECH_V	470	T1A	Energy Conversion Systems	W1	Energy supply and demand. Energy conversion chain. Electrical power generation using thermal power plants, renewable energy, and fuel cells. Rankine cycle steam power. Brayton cycle gas turbine power plants, intercooling, reheat, and regeneration. Internal combustion engines. Exhaust gas after treatment. Combined and binary cycles. Nuclear power. Recommended pre-requisites: All of MECH 327, MECH 375. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280.	In Person Learning	Arranged	Arranged
MECH_V 471-201	MECH_V	471	201	An Introduction to Pulp and Papermaking	W2	Overview of pulp and paper operations. Conversion of wood to fibre through mechanical or chemical pulping, processing of recycled fibre, the papermaking process and paper converting operations. Contemporary developments. This course is not eligible for Credit/D/Fail grading. [3-0-0]	Online Learning	Mon Thu	11:30 a.m. - 1:00 p.m.
MECH_V 473-101	MECH_V	473	101	Heating, Ventilating and Air Conditioning	W2	Principles of air conditioning; psychometrics and refrigeration. Heat transfer through building materials. Estimation of heating and cooling loads including the use of current software. System design. Ground, air and water source heat pumps. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 375.	In Person Learning	Arranged	Arranged
MECH_V 473-201	MECH_V	473	201	Heating, Ventilating and Air Conditioning	W2	Principles of air conditioning; psychometrics and refrigeration. Heat transfer through building materials. Estimation of heating and cooling loads including the use of current software. System design. Ground, air and water source heat pumps. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 375.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
MECH_V 473-T1A	MECH_V	473	T1A	Heating, Ventilating and Air Conditioning	W2	Principles of air conditioning; psychometrics and refrigeration. Heat transfer through building materials. Estimation of heating and cooling loads including the use of current software. System design. Ground, air and water source heat pumps. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 375.	In Person Learning	Arranged	Arranged
MECH_V 473-T2A	MECH_V	473	T2A	Heating, Ventilating and Air Conditioning	W2	Principles of air conditioning; psychometrics and refrigeration. Heat transfer through building materials. Estimation of heating and cooling loads including the use of current software. System design. Ground, air and water source heat pumps. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 375.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
MECH_V 477-101	MECH_V	477	101	Aerospace Propulsion	W1	Cycle analysis of jet engines, thermodynamic cycles, mechanics and thermodynamics of combustion, components and the performance characteristics of chemical rockets. The detailed analysis of operating characteristics of turbojet, turbofan, turboprop, afterburning, and ramjet propulsion systems. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MECH 327, MECH 375, MECH 380.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 477-T1A	MECH_V	477	T1A	Aerospace Propulsion	W1	Cycle analysis of jet engines, thermodynamic cycles, mechanics and thermodynamics of combustion, components and the performance characteristics of chemical rockets. The detailed analysis of operating characteristics of turbojet, turbofan, turboprop, afterburning, and ramjet propulsion systems. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MECH 327, MECH 375, MECH 380.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
MECH_V 478-201	MECH_V	478	201	Internal Combustion Engines	W2	Analysis of spark and compression ignition engines. Calculation of fuel economy, power, and emission. Practical and regulatory considerations in engine design. Engine emission and control systems. Recommended pre-requisite: MECH 327. Credit will be granted for only one of MECH 478 or MECH 578. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Either (a) MECH 225 or (b) one of CHBE 241, ENPH 257 and one of CHBE 251, CIVL 215, MECH 280. Equivalency: MECH578	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
MECH_V 479-101	MECH_V	479	101	Introduction to Computational Fluid Dynamics	W1	Techniques for numerical solution of ordinary and partial differential equations, including an introduction to the finite difference, finite volume and finite element approaches. Simulation of laminar and turbulent flows, including common turbulent models. Validation techniques. Recommended pre-requisite: MECH 380. This course is not eligible for Credit/D/Fail grading. [3-1-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MECH_V 479-L1A	MECH_V	479	L1A	Introduction to Computational Fluid Dynamics	W1	Techniques for numerical solution of ordinary and partial differential equations, including an introduction to the finite difference, finite volume and finite element approaches. Simulation of laminar and turbulent flows, including common turbulent models. Validation techniques. Recommended pre-requisite: MECH 380. This course is not eligible for Credit/D/Fail grading. [3-1-0]	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
MECH_V 481-101	MECH_V	481	101	Aerodynamics of Aircraft I	W1	Analysis of airfoils and wings. Potential flow, thin airfoil theory, lifting line analysis of wings. Predicting viscous drag. Numerical methods for analysis and design of airfoils and wings. Use of wind tunnels for experimental study of aerodynamics. Credit will be granted for only one of MECH 481 or MECH 581. This course is not eligible for Credit/D/Fail grading. [3-1*-0] Prerequisite: [MECH380] Equivalency: MECH581	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MECH_V 481-L1A	MECH_V	481	L1A	Aerodynamics of Aircraft I	W1	Analysis of airfoils and wings. Potential flow, thin airfoil theory, lifting line analysis of wings. Predicting viscous drag. Numerical methods for analysis and design of airfoils and wings. Use of wind tunnels for experimental study of aerodynamics. Credit will be granted for only one of MECH 481 or MECH 581. This course is not eligible for Credit/D/Fail grading. [3-1*-0] Prerequisite: [MECH380] Equivalency: MECH581	In Person Learning	Mon (Alternate weeks)	11:00 a.m. - 12:00 p.m.
MECH_V 484-201	MECH_V	484	201	Aircraft Design: Aerodynamics	W2	Aircraft performance, stability and control, loading and air worthiness. Detailed example. This course is not eligible for Credit/D/Fail grading. [2-0-2] Corequisite: MECH 481.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
MECH_V 484-T2A	MECH_V	484	T2A	Aircraft Design: Aerodynamics	W2	Aircraft performance, stability and control, loading and air worthiness. Detailed example. This course is not eligible for Credit/D/Fail grading. [2-0-2] Corequisite: MECH 481.	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
MECH_V 485-101	MECH_V	485	101	Aircraft Design: Structures	W1	Structural components of aircraft, introduction to the finite element method, bending and buckling of thin plates. Design of aircraft wing and fuselage structures, moments of inertia for complex shapes. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MECH_V 485-T1A	MECH_V	485	T1A	Aircraft Design: Structures	W1	Structural components of aircraft, introduction to the finite element method, bending and buckling of thin plates. Design of aircraft wing and fuselage structures, moments of inertia for complex shapes. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 224, MECH 260.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MECH_V 486-101	MECH_V	486	101	Introduction to Ship Design	W1	This course introduces the ship design process from a Systems Engineering point of view. Topics include ship operational requirements, space and weight estimation, parametric design, optimization techniques, and the impacts of ship design on economics and the environment. Credit will be granted for only one of MECH 481 or NAME 581. [3-0-0] Prerequisite: Either (a) MECH 380 or (b) CIVL 315. Corequisite: All of MECH 488, CIVL 435. Equivalency: NAME581	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

MECH_V 488-101	MECH_V	488	101	Introduction to Ship Hydrodynamics	W1	Ship terminology, lines plans, ship hydrostatics, transverse and longitudinal stability of ships, dimensional analysis, ship resistance prediction; ship propulsion methods, propeller selection and design. Recommended prerequisites: One of MECH 380 or CIVL 315, or enrollment in the NAME MEng or NAME MEL program. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
MECH_V 488-102	MECH_V	488	102	Introduction to Ship Hydrodynamics	W1	Ship terminology, lines plans, ship hydrostatics, transverse and longitudinal stability of ships, dimensional analysis, ship resistance prediction; ship propulsion methods, propeller selection and design. Recommended prerequisites: One of MECH 380 or CIVL 315, or enrollment in the NAME MEng or NAME MEL program. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
MECH_V 489-201	MECH_V	489	201	Experimental Thermofluids	W2	Experimental uncertainty. Design of experiments. Test facilities. Temperature and pressure measurement techniques and instrumentation. Velocity and flow rate measurement techniques. Flow visualization. Case studies of industrial and research experimental practice. Credit will be granted for only one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of MECH 375, MECH 380. Equivalency: MECH582	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MECH_V 489-L2A	MECH_V	489	L2A	Experimental Thermofluids	W2	Experimental uncertainty. Design of experiments. Test facilities. Temperature and pressure measurement techniques and instrumentation. Velocity and flow rate measurement techniques. Flow visualization. Case studies of industrial and research experimental practice. Credit will be granted for only one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: All of MECH 375, MECH 380. Equivalency: MECH582	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
MECH_V 490-001	MECH_V	490	001	Interdisciplinary Capstone Design Project	W1-2	An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this program is only permitted for Mechanical Engineering students who are in the New Venture Design Program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. [1*-1-1]; [1*-1-1]	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
MECH_V 490-L0A	MECH_V	490	L0A	Interdisciplinary Capstone Design Project	W1-2	An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this program is only permitted for Mechanical Engineering students who are in the New Venture Design Program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. [1*-1-1]; [1*-1-1]	In Person Learning	Arranged	Arranged
MECH_V 490-T0A	MECH_V	490	T0A	Interdisciplinary Capstone Design Project	W1-2	An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this program is only permitted for Mechanical Engineering students who are in the New Venture Design Program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. [1*-1-1]; [1*-1-1]	In Person Learning	Arranged	Arranged
MECH_V 491-101	MECH_V	491	101	Computer-Aided Manufacturing	W1	NC programming and machining with interactive CAD/CAM systems. Curve and surface geometry for tool-path generation. Tool-path generation methodologies. Geometric modelling techniques for simulation and verification of manufacturing processes. Introduction to Computer-Aided Process Planning. Supplementary tutorial laboratory experiments. Recommended co-requisites: MECH 392 or MANU 380. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
MECH_V 491-L1A	MECH_V	491	L1A	Computer-Aided Manufacturing	W1	NC programming and machining with interactive CAD/CAM systems. Curve and surface geometry for tool-path generation. Tool-path generation methodologies. Geometric modelling techniques for simulation and verification of manufacturing processes. Introduction to Computer-Aided Process Planning. Supplementary tutorial laboratory experiments. Recommended co-requisites: MECH 392 or MANU 380. This course is not eligible for Credit/D/Fail grading. [2-2-0]	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
MECH_V 493-001	MECH_V	493	001	Introduction to Academic Research	W1-2	Research project directed by a faculty member in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [0-5-1] Prerequisite: Fourth-year standing and at least 80% average in third-year courses and permission of instructor.	In Person Learning	Arranged	Arranged
MECH_V 493-L0A	MECH_V	493	L0A	Introduction to Academic Research	W1-2	Research project directed by a faculty member in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [0-5-1] Prerequisite: Fourth-year standing and at least 80% average in third-year courses and permission of instructor.	In Person Learning	Arranged	Arranged
MECH_V 495-201	MECH_V	495	201	Industrial Engineering	W2	Organizational structure. Manufacturing systems and group technology. Classification and coding. Scheduling and sequencing of operations. Forecasting. Quality control for variables and attributes. Plant location. System reliability analysis. Advanced manufacturing automation concepts. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
MECH_V 496-101	MECH_V	496	101	Engineering Management	W1	Organization structures. Management styles. Cost systems and control. Financial statements; accounting procedures. Budgets and performance control. Project management. Human resources management. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
MECH_V 502-101	MECH_V	502	101	Fluid Mechanics	W1	Governing equations; viscous incompressible flow, incompressible potential flow; incompressible boundary layers, stability and turbulence; compressible potential flow. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MECH_V 503-101	MECH_V	503	101	Linear Elasticity	W1	Stress and strain in three dimensions, fundamental field equations of linear elasticity; equilibrium, compatibility, Hooke's law; Papkovitch-Neuber solution, plane stress and plane strain; torsion, torsion of thin-walled members with warping restraint; plate theory. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MECH_V 503-T1A	MECH_V	503	T1A	Linear Elasticity	W1	Stress and strain in three dimensions, fundamental field equations of linear elasticity; equilibrium, compatibility, Hooke's law; Papkovitch-Neuber solution, plane stress and plane strain; torsion, torsion of thin-walled members with warping restraint; plate theory. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
MECH_V 506-201	MECH_V	506	201	Linear Vibrations	W2	Transient and steady state vibration analysis of continuous and discrete mechanical systems. Lagrange's equation and Hamilton's Principle. Measurement of vibration. Machinery health monitoring. Frequency domain analysis. Experimental modal analysis. Vibration of rotating machinery. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MECH_V 509-201	MECH_V	509	201	Controls	W2	State space model; stability; controllability; observability; Kalman decomposition; state feedback; observer; linear quadratic regulator; Kalman filter. Credit will be granted for only one of MECH 468 or 509. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.

MECH_V 514-101	MECH_V	514	101	Linear FEA in Solids and Heat Transfer	W1	Theory and element selection. Virtual work and weighted residual formulation. Linear elastic analysis. Heat transfer analysis. Isoparametric elements. Computer program development. Utilization of existing computer packages. Credit will only be granted for one of MECH 514 or MECH 462. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
MECH_V 514-L1A	MECH_V	514	L1A	Linear FEA in Solids and Heat Transfer	W1	Theory and element selection. Virtual work and weighted residual formulation. Linear elastic analysis. Heat transfer analysis. Isoparametric elements. Computer program development. Utilization of existing computer packages. Credit will only be granted for one of MECH 514 or MECH 462. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 5:30 p.m.
MECH_V 521-101	MECH_V	521	101	Fundamentals of Microelectromechanical Systems	W1	Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MECH_V 521-L1A	MECH_V	521	L1A	Fundamentals of Microelectromechanical Systems	W1	Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
MECH_V 521-L1B	MECH_V	521	L1B	Fundamentals of Microelectromechanical Systems	W1	Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
MECH_V 521-L1C	MECH_V	521	L1C	Fundamentals of Microelectromechanical Systems	W1	Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	5:00 p.m. - 8:00 p.m.
MECH_V 524-101	MECH_V	524	101	Software Development for Mechatronic Systems	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: EECES24	In Person Learning	Wed Fri	1:00 p.m. - 2:30 p.m.
MECH_V 524-L1A	MECH_V	524	L1A	Software Development for Mechatronic Systems	W1	This course is not eligible for Credit/D/Fail grading. Equivalency: EECES24	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
MECH_V 525-201	MECH_V	525	201	Instrumentation for Mechatronic Systems	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: EECES25	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
MECH_V 525-L2A	MECH_V	525	L2A	Instrumentation for Mechatronic Systems	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: EECES25	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
MECH_V 533-101	MECH_V	533	101	Biofluids	W1	Principles, biorheology, circulatory biofluid mechanics, synovial fluid in joints, biofluid dynamics of the human brain, respiratory biofluid mechanics, flow and pressure measurement techniques in the human body. Credit will be granted for only one of MECH 433 or 533. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	5:00 p.m. - 6:30 p.m.
MECH_V 533-T1A	MECH_V	533	T1A	Biofluids	W1	Principles, biorheology, circulatory biofluid mechanics, synovial fluid in joints, biofluid dynamics of the human brain, respiratory biofluid mechanics, flow and pressure measurement techniques in the human body. Credit will be granted for only one of MECH 433 or 533. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
MECH_V 535-101	MECH_V	535	101	Orthopaedic Biomechanics	W1	Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 435 or MECH 535. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
MECH_V 535-201	MECH_V	535	201	Orthopaedic Biomechanics	W1	Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 435 or MECH 535. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
MECH_V 535-T1A	MECH_V	535	T1A	Orthopaedic Biomechanics	W1	Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 435 or MECH 535. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MECH_V 535-T2A	MECH_V	535	T2A	Orthopaedic Biomechanics	W1	Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 435 or MECH 535. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MECH_V 536-101	MECH_V	536	101	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 536-201	MECH_V	536	201	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 536-T1A	MECH_V	536	T1A	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 536-T2A	MECH_V	536	T2A	Fundamentals of Injury Biomechanics	W2	Introduction to injury biomechanics. Anatomy. Impact experiments. Multi-body dynamic simulation and finite element analysis. Skull, face, brain, eye, pelvis, abdomen, and extremity injury. Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 540-E_101	MECH_V	540	E	E_101	W1	Emerging Topics in Mechatronics, Manufacturing, Controls, and Automation This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

MECH_V 540-F_101	MECH_V	540	F	F_101	Emerging Topics in Mechatronics, Manufacturing, Controls, and Automation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MECH_V 540-G_101	MECH_V	540	G	G_101	Emerging Topics in Mechatronics, Manufacturing, Controls, and Automation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
MECH_V 541-101	MECH_V	541		101	Computer Control of Multi-Axis Machines	W1	Digital control laws for servo drives; state space and transfer function models of feed drives; tracking errors; trajectory generation of multi-axis machines; contouring analysis of multi-axes servo drives; real time linear and circular interpolation methods supported by laboratory applications. Credit will be granted for only one of MECH 467 or MECH 541. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MECH_V 541-L1A	MECH_V	541		L1A	Computer Control of Multi-Axis Machines	W1	Digital control laws for servo drives; state space and transfer function models of feed drives; tracking errors; trajectory generation of multi-axis machines; contouring analysis of multi-axes servo drives; real time linear and circular interpolation methods supported by laboratory applications. Credit will be granted for only one of MECH 467 or MECH 541. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 541-T1A	MECH_V	541		T1A	Computer Control of Multi-Axis Machines	W1	Digital control laws for servo drives; state space and transfer function models of feed drives; tracking errors; trajectory generation of multi-axis machines; contouring analysis of multi-axes servo drives; real time linear and circular interpolation methods supported by laboratory applications. Credit will be granted for only one of MECH 467 or MECH 541. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
MECH_V 542-201	MECH_V	542		201	CAD/CAM Principles and Practice	W2	3D geometric modelling; parametric representation of curves and surfaces; CNC machine tool programming; milling operations and setup; tool path generation for three- and five-axis sculptured surface machining. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MECH_V 542-L2A	MECH_V	542		L2A	CAD/CAM Principles and Practice	W2	3D geometric modelling; parametric representation of curves and surfaces; CNC machine tool programming; milling operations and setup; tool path generation for three- and five-axis sculptured surface machining. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
MECH_V 556-101	MECH_V	556		101	Research Writing	W1	Credit will be granted for only one of MECH 498 or MECH 556. Equivalency: MECH 500X, MECH 500A, MECH 550U	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MECH_V 556-T1A	MECH_V	556		T1A	Research Writing	W1	Credit will be granted for only one of MECH 498 or MECH 556. Equivalency: MECH 500X, MECH 500A, MECH 550U	In Person Learning	Thu	3:30 p.m. - 4:30 p.m.
MECH_V 557-101	MECH_V	557		101	Research Skills for Engineers	W1		In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
MECH_V 557-DNU_101	MECH_V	557		DNU_101	Research Skills for Engineers	W1		In Person Learning	Arranged	Arranged
MECH_V 557-DNU_T1A	MECH_V	557		DNU_T1A	Research Skills for Engineers	W1		In Person Learning	Arranged	Arranged
MECH_V 557-T1A	MECH_V	557		T1A	Research Skills for Engineers	W1		In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
MECH_V 558-101	MECH_V	558		101	Professional Responsibility for Engineers	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
MECH_V 558-T1A	MECH_V	558		T1A	Professional Responsibility for Engineers	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
MECH_V 559-101	MECH_V	559		101	Engineering Project Management	W1		In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
MECH_V 563-201	MECH_V	563		201	Robotics: Kinematics, Dynamics and Control	W2	Definitions and classification Kinematics: homogeneous transformations, manipulator kinematic equations, forward and inverse kinematic solution methods, differential kinematic equations, motion trajectories. Dynamics: Lagrange-Euler formulations, Newton-Euler formulation. Control: methods, robot control hierarchy, control of single joint and multiple link manipulators, advanced control methods. Credit will be granted for only one of ELEC 442, EECE 571R, EECE 589, MECH 464, or MECH 563. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MECH_V 563-T2A	MECH_V	563		T2A	Robotics: Kinematics, Dynamics and Control	W2	Definitions and classification Kinematics: homogeneous transformations, manipulator kinematic equations, forward and inverse kinematic solution methods, differential kinematic equations, motion trajectories. Dynamics: Lagrange-Euler formulations, Newton-Euler formulations. Control: methods, robot control hierarchy, control of single joint and multiple link manipulators, advanced control methods. Credit will be granted for only one of ELEC 442, EECE 571R, EECE 589, MECH 464, or MECH 563. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
MECH_V 570-C_201	MECH_V	570	C	C_201	Emerging Topics in Thermodynamics, Fluid Mechanics, and Heat Transfer	W2		In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MECH_V 572-101	MECH_V	572		101	Convection Heat Transfer	W1	Governing equations for laminar and turbulent flow. Forced convection in internal and external flow. Free, and combined free and forced convection. Heat transfer at high velocities, in rarefied gases and in two-phase flow. Mass transfer. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.

MECH_V 577-201	MECH_V	577	201	Fuel Cell Systems	W2	Energy system architecture and electrochemical energy conversion; fuel cell thermodynamics and electrochemistry; Proton Exchange Membrane Fuel Cells (PMFCs) and Solid Oxide Fuel Cells (SOFCs); hydrogen production, storage, and distribution. Credit will only be granted for one of MECH 445 or MECH 577. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.	
MECH_V 577-T2A	MECH_V	577	T2A	Fuel Cell Systems	W2	Energy system architecture and electrochemical energy conversion; fuel cell thermodynamics and electrochemistry; Proton Exchange Membrane Fuel Cells (PMFCs) and Solid Oxide Fuel Cells (SOFCs); hydrogen production, storage, and distribution. Credit will only be granted for one of MECH 445 or MECH 577. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.	
MECH_V 578-201	MECH_V	578	201	Internal Combustion Engines	W2	Analysis of spark and compression ignition engines. Calculation of fuel economy, power and emission. Practical and regulatory considerations in engine design. Numerical engine modelling and analysis. Credit will be granted for only one of MECH 478 or MECH 578. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.	
MECH_V 581-101	MECH_V	581	101	Low Speed Aerodynamics	W1	Circulation, vorticity and Kelvin's Theorem. Potential flow theory and the Kutta-Joukowski Law 2D Vortex Panel. Method. Laminar and turbulent boundary layer computations. Lifting line theory. Vortex Lattice Method. High lift devices. Total airplane drag. Credit will only be granted for one of MECH 581 or MECH 481. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
MECH_V 581-L1A	MECH_V	581	L1A	Low Speed Aerodynamics	W1	Circulation, vorticity and Kelvin's Theorem. Potential flow theory and the Kutta-Joukowski Law 2D Vortex Panel. Method. Laminar and turbulent boundary layer computations. Lifting line theory. Vortex Lattice Method. High lift devices. Total airplane drag. Credit will only be granted for one of MECH 581 or MECH 481. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon (Alternate weeks)	11:00 a.m. - 12:00 p.m.	
MECH_V 582-201	MECH_V	582	201	Experimental Fluid Mechanics	W2	Modelling Test facilities. Wind tunnel force measurement. Theory of conventional and modern manometry. Classical velocimetry. Hotwire anemometry. Theory and application of laser Doppler velocimetry. Particle image velocimetry. Flow visualization techniques. Thermometry. Credit will only be granted for one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
MECH_V 582-L2A	MECH_V	582	L2A	Experimental Fluid Mechanics	W2	Modelling Test facilities. Wind tunnel force measurement. Theory of conventional and modern manometry. Classical velocimetry. Hotwire anemometry. Theory and application of laser Doppler velocimetry. Particle image velocimetry. Flow visualization techniques. Thermometry. Credit will only be granted for one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.	
MECH_V 586-201	MECH_V	586	201	Turbulent Shear Flow	W2	The basic equations of fluid motion; introduction to hydro-dynamic stability; Reynolds' equations; energy equations for turbulent motion; intermittency; similarity near a solid boundary and in free turbulence; approximate methods for predicting the growth of turbulent boundary layers and free symmetrical shear flows. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
MECH_V 587-101	MECH_V	587	101	Computational Fluid Dynamics	W1	Analytical, computational, and experimental methods in fluid mechanics. Overview of CFD program development. Finite volume methods, spacial discretization and spatial accuracy analysis. Boundary conditions. Time advance methods, time accuracy, and stability. Application to model problems and to the incompressible laminar Navier-Stokes equations. Validation techniques for CFD codes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
MECH_V 587-L1A	MECH_V	587	L1A	Computational Fluid Dynamics	W1	Analytical, computational, and experimental methods in fluid mechanics. Overview of CFD program development. Finite volume methods, spacial discretization and spatial accuracy analysis. Boundary conditions. Time advance methods, time accuracy, and stability. Application to model problems and to the incompressible laminar Navier-Stokes equations. Validation techniques for CFD codes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.	
MECH_V 597-W_101	MECH_V	597	W	W_101	Project for M.Eng. Studies	W1	Project on assigned topic of specialization. For students registered in the M.Eng. program whose project is supervised by a faculty member in the department of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 597-W_201	MECH_V	597	W	W_201	Project for M.Eng. Studies	W2	Project on assigned topic of specialization. For students registered in the M.Eng. program whose project is supervised by a faculty member in the department of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 598-001	MECH_V	598	001	Research Seminar	W1-2	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.	
MECH_V 598-002	MECH_V	598	002	Research Seminar	W1-2	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.	
MECH_V 598-004	MECH_V	598	004	Research Seminar	W1-2	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.	
MECH_V 598-006	MECH_V	598	006	Research Seminar	W1-2	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.	
MECH_V 598-007	MECH_V	598	007	Research Seminar	W1-2	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.	
MECH_V 598-101	MECH_V	598	101	Research Seminar	W1	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.	
MECH_V 598-102	MECH_V	598	102	Research Seminar	W1	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.	
MECH_V 598-104	MECH_V	598	104	Research Seminar	W1	Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.	





MECH_V 698-202	MECH_V	698	202	Seminar	W2	Current topics in mechanical engineering for doctoral students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MECH_V 698-204	MECH_V	698	204	Seminar	W2	Current topics in mechanical engineering for doctoral students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
MECH_V 698-206	MECH_V	698	206	Seminar	W2	Current topics in mechanical engineering for doctoral students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MECH_V 698-207	MECH_V	698	207	Seminar	W2	Current topics in mechanical engineering for doctoral students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MECH_V 698-208	MECH_V	698	208	Seminar	W2	Current topics in mechanical engineering for doctoral students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MECH_V 699-001	MECH_V	699	001	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-002	MECH_V	699	002	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-003	MECH_V	699	003	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-004	MECH_V	699	004	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-005	MECH_V	699	005	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-006	MECH_V	699	006	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-007	MECH_V	699	007	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-008	MECH_V	699	008	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-009	MECH_V	699	009	Doctoral Dissertation	W1-2	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-101	MECH_V	699	101	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-102	MECH_V	699	102	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-103	MECH_V	699	103	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-104	MECH_V	699	104	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-105	MECH_V	699	105	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-106	MECH_V	699	106	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-107	MECH_V	699	107	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-108	MECH_V	699	108	Doctoral Dissertation	W1	Pass/Fail	In Person Learning	Arranged	Arranged
MECH_V 699-201	MECH_V	699	201	Doctoral Dissertation	W2	Pass/Fail	In Person Learning	Arranged	Arranged

MECH_V 699-202	MECH_V	699	202	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MECH_V 699-203	MECH_V	699	203	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MECH_V 699-204	MECH_V	699	204	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MECH_V 699-205	MECH_V	699	205	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MECH_V 699-206	MECH_V	699	206	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MECH_V 699-207	MECH_V	699	207	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MECH_V 699-208	MECH_V	699	208	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MECH_V 699-209	MECH_V	699	209	Doctoral Dissertation	W2	Pass/Fail		In Person Learning	Arranged	Arranged
MEDD_V 411-001	MEDD_V	411	001	Foundations of Medical Practice I	W1		Integrating foundational and clinical sciences and clinical practice themes. Case-based approach fostering the development of evidence-based clinical reasoning and clinical skills. Organized on the basis of clinical presentations. Pass/fail. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 12:00 p.m.
MEDD_V 412-001	MEDD_V	412	001	Foundations of Medical Practice II	W2		Increasingly complex clinical presentations through integration of foundational and clinical sciences and clinical practice themes. Developmental, case-based approach fostering the development of evidence-based clinical reasoning and clinical skills. Pass/fail. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 12:00 p.m.
MEDD_V 419-001	MEDD_V	419	001	Foundations of Scholarship and Flexible Enhanced Learning I	W1-2		Various medically-related learning experiences and scholarly activities. Emphasizes social accountability, introduces scholarly methods, and fosters innovation, creativity, and critical thought to prepare graduates for roles as scholars, lifelong learners, and leaders. Pass/fail. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon	1:00 p.m. - 5:00 p.m.
MEDD_V 421-001	MEDD_V	421	001	Foundations of Medical Practice III	W1		Increasingly complex clinical presentations integrating foundational sciences and clinical practice themes. Developmental, case-based approach fostering the development of evidence-based clinical reasoning and clinical skills. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 12:00 p.m.
MEDD_V 422-001	MEDD_V	422	001	Transition into Clinical Education	W2		Prepares students to transition from classroom-based to clinical learning environments. Increasingly complex clinical presentations integrating foundational sciences and clinical practice themes. Prepares students for clinical practice in Year 3 Clerkship. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon Tue Wed Thu Fri	8:00 a.m. - 12:00 p.m.
MEDD_V 429-001	MEDD_V	429	001	Flexible Enhanced Learning II	W1-2		Opportunity to build on scholarly activities initiated in MEDD 419, or start new ones. Emphasizes social accountability and fosters innovation, creativity, and critical thought to prepare graduates for roles as scholars, lifelong learners, and leaders. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon	1:00 p.m. - 5:00 p.m.
MEDD_V 431-001	MEDD_V	431	001	Clerkship	W1-2		Core experiences across the breadth of medicine through clinical and academic learning opportunities in ambulatory, hospital-based, and rural/remote settings. Interactions with patients under supervision. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDD_V 440-001	MEDD_V	440	001	Senior Elective	W1-2		Senior Elective encompasses 6 months of Year 4 of the MD undergraduate program. Students will choose from available electives between 2 and 4 weeks in duration and participate in all relevant clinical and academic activities associated with those electives. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDD_V 448-001	MEDD_V	448	001	Transition into Postgraduate Education and Practice	W1-2		Enables students to effectively transition from medical school to residency and medical practice. Complex clinical presentations that integrate foundational sciences and practice themes. Prepares students for practice as residents and physicians. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDD_V 449-001	MEDD_V	449	001	Flexible Enhanced Learning III	W1		Opportunity to build on scholarly activities initiated in MEDD 419 and 429, or start new ones. Emphasizes social accountability and fosters innovation and critical thought to prepare graduates for roles as scholars, lifelong learners, and leaders. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDD_V 451-001	MEDD_V	451	001	Clinical Skills IV	W2		Final examination for fourth year encompassing all clinical subjects.	In Person Learning	Arranged	Arranged
MEDG_V 419-001	MEDG_V	419	001	Developmental Origin of Human Disorders	W1		Genetic and epigenetic determinants of development from conception to birth. Topics include development of the neural tube, face, heart, endoderm, blastocyst, embryonic stem cells, gastrulation, genomic imprinting, placental complications, chromosomal abnormalities and prenatal diagnosis. Discussions based on published research articles. [3-0-1] Prerequisite: One of BIOL 233, BIOL 234 and one of BIOL 331, BIOL 335. A standing of 'B' or higher recommended.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MEDG_V 420-001	MEDG_V	420	001	Human Genomics and Medical Genetics	W1		Sequence and structure of the human genome. Human genetic evolution. Identifications of genes affecting normal and pathological variation. Molecular mechanisms of genetic diseases and disorders. Medical applications of human genetics. [3-0-0] Prerequisite: One of BIOL 335, BIOL 338. A standing of 'B' or higher is recommended, however, higher grades take priority in the registration process.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
MEDG_V 421-001	MEDG_V	421	001	Genetics and Cell Biology of Cancer	W2		Molecular mechanisms of oncogenes and tumor suppressors in cancer biology, methods of and insights from studying cancer genomes, and current topics in cancer research. [3-0-0] Prerequisite: BIOL 335 and one of BIOC 302, BIOC 303.	In Person Learning	Tue Thu	9:30 a.m. - 11:30 a.m.

MEDG_V 448-A_001	MEDG_V	448	A	A_001	Directed Studies	W1	A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.	In Person Learning	Arranged	Arranged
MEDG_V 448-B_003	MEDG_V	448	B	B_003	Directed Studies	W2	A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.	In Person Learning	Arranged	Arranged
MEDG_V 448-C_002	MEDG_V	448	C	C_002	Directed Studies	W1-2	A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.	In Person Learning	Arranged	Arranged
MEDG_V 505-001	MEDG_V	505		001	Genome Analysis	W2	Investigation of genetic information as it is organized within genomes, genetic and physical map construction, sequencing technologies, gene identification, database accessing and integration, functional organization of genomes from contemporary, historic and evolutionary perspectives. Recommended pre-requisite: BIOL 234. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
MEDG_V 520-001	MEDG_V	520		001	Advanced Human Molecular Genetics	W1	Gene structure and regulation, genetic and epigenetic variation, genome and epigenome analysis, stem cell genetics, personalized genetics, bioinformatics, pharmacogenetics and genomics. Recommended pre-requisite: BIOL 335. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
MEDG_V 521-001	MEDG_V	521		001	Molecular and Cell Biology of Cancer	W2	Focuses on molecular and cell biology of cancer through a series of lectures, reviews, student presentations and discussion. Recommended pre-requisites: One of BIOL 234, BIOL 335, BIOL 303, or consent of instructor. This course is not eligible for Credit/D/Fail grading. [3-0] Equivalency: PATH531	In Person Learning	Wed	12:30 p.m. - 4:00 p.m.
MEDG_V 525-001	MEDG_V	525		001	Data analysis in Medical Genetics and Genomics	W1	Methodology in data analysis applicable to the study of human genes, traits or diseases. Includes computer programming, foundational biostatistics, and data science methods. [3-0] Prerequisite: All of BIOL 335 and BIOL 300	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MEDG_V 530-001	MEDG_V	530		001	Human Genetics	W2	Human Mendelian and non-Mendelian inheritance and clinical applications of genetics. Recommended pre-requisite: BIOL 335. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Tue Thu	8:30 a.m. - 10:30 a.m.
MEDG_V 545-001	MEDG_V	545		001	Current Topics in Medical Genetics Research	W1-2	Critical discussion of current primary research literature in medical genetics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDG_V 545-002	MEDG_V	545		002	Current Topics in Medical Genetics Research	W1	Critical discussion of current primary research literature in medical genetics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDG_V 545-003	MEDG_V	545		003	Current Topics in Medical Genetics Research	W2	Critical discussion of current primary research literature in medical genetics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDG_V 548-A_001	MEDG_V	548	A	A_001	Directed Studies	W1	A series of laboratory sessions, directed readings and directed counselling interviews related to selected areas of Medical Genetics. This advanced course may be taken upon approval of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDG_V 548-A_004	MEDG_V	548	A	A_004	Directed Studies	W1-2	A series of laboratory sessions, directed readings and directed counselling interviews related to selected areas of Medical Genetics. This advanced course may be taken upon approval of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDG_V 548-B_002	MEDG_V	548	B	B_002	Directed Studies	W1-2	A series of laboratory sessions, directed readings and directed counselling interviews related to selected areas of Medical Genetics. This advanced course may be taken upon approval of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDG_V 548-C_003	MEDG_V	548	C	C_003	Directed Studies	W2	A series of laboratory sessions, directed readings and directed counselling interviews related to selected areas of Medical Genetics. This advanced course may be taken upon approval of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDG_V 548-D_001	MEDG_V	548	D	D_001	Directed Studies	W1	A series of laboratory sessions, directed readings and directed counselling interviews related to selected areas of Medical Genetics. This advanced course may be taken upon approval of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDG_V 548-D_002	MEDG_V	548	D	D_002	Directed Studies	W2	A series of laboratory sessions, directed readings and directed counselling interviews related to selected areas of Medical Genetics. This advanced course may be taken upon approval of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDG_V 548-E_001	MEDG_V	548	E	E_001	Directed Studies	W1-2	A series of laboratory sessions, directed readings and directed counselling interviews related to selected areas of Medical Genetics. This advanced course may be taken upon approval of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDG_V 549-001	MEDG_V	549		001	M.Sc. Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDG_V 549-002	MEDG_V	549		002	M.Sc. Thesis	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDG_V 549-003	MEDG_V	549		003	M.Sc. Thesis	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

MEDG_V 550-001	MEDG_V	550	001	Concepts in Clinical Genetics for Genetic Counselling	W1-2	Practical applications, theories, and principles of medical genetics as they apply to genetic counselling. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: Acceptance into M.Sc. Genetic Counselling program.	In Person Learning	Arranged	Arranged	
MEDG_V 560-001	MEDG_V	560	001	Genetic Counselling Seminar	W1-2	Medical and genetic interviewing and family history taking; decision making; family dynamics; impact of congenital defects, genetic disease, and chronic disease on individuals and families; support groups and other community resources; computer resources; cross-cultural issues. This course is not eligible for Credit/D/Fail grading. [2-0-0] Prerequisite: Acceptance into M.Sc. Genetic Counselling program.	In Person Learning	Arranged	Arranged	
MEDG_V 565-001	MEDG_V	565	001	Advanced Genetic Counselling Seminar	W1-2	Patient attitudes toward genetic counselling; the grieving process in response to pregnancy loss, death, and disability; risk perception, attitudes toward prenatal testing, dealing with results of genetic testing, crisis counselling, giving bad news; ethical dilemmas; legal and professional issues. This course is not eligible for Credit/D/Fail grading. [0-2] Prerequisite: MEDG 560. And acceptance into M.Sc. Genetic Counselling program.	In Person Learning	Arranged	Arranged	
MEDG_V 570-A_001	MEDG_V	570	A	A_001	Introductory Clinical and Laboratory Rotation	W2	Clinical experience in prenatal procedures and counselling; teratogen counselling. Clinically relevant experience in cytogenetics, molecular, biochemical disease and embryopathology laboratories. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-5] Prerequisite: Acceptance into M.Sc. Genetic Counselling program.	In Person Learning	Arranged	Arranged
MEDG_V 575-001	MEDG_V	575	001	Advanced Clinical Rotation	W1-2	In-depth clinical experience in general and prenatal genetic counselling. Pass/Fail This course is not eligible for Credit/D/Fail grading. [0-15] Prerequisite: MEDG 570. And acceptance into M.Sc. Genetic Counselling program.	In Person Learning	Arranged	Arranged	
MEDG_V 580-101	MEDG_V	580	101	Genomic Testing and Clinical Bioinformatics	W1	Annotation, filtering, and candidate variant calling skill development with a clinical focus; yield, benefits, and limitations of genome-wide sequencing. Online. Restricted to students in the Graduate Certificate in Genomic Counselling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading. [3-0-0]	Online Learning	Arranged	Arranged	
MEDG_V 585-201	MEDG_V	585	201	Applied Variant Interpretation	W2	Human genome-wide sequencing (GWS) variant interpretation, with an emphasis on determining variant pathogenicity and significance in a clinical and research setting. Online. Restricted to students in the Graduate Certificate in Genomic Counselling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: MEDG 580.	Online Learning	Arranged	Arranged	
MEDG_V 590-201	MEDG_V	590	201	Evidence-Based Genomic Counselling	W2	Genomic counselling skills and clinical insights; obtaining informed consent, variant appraisal, incidental and secondary findings, informing results, family communication. Online. Restricted to students in the Graduate Certificate in Genomic Counselling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading. [3-0-0]	Online Learning	Arranged	Arranged	
MEDG_V 595-101	MEDG_V	595	101	Emerging Genomic Topics	W1	Utility, impacts, and ethical implications of developing genomic applications; multiomics, tumour genomics, pharmacogenomics, population genomics. Online. Restricted to students in the Graduate Certificate in Genomic Counselling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading. [3-0-0]	Online Learning	Arranged	Arranged	
MEDG_V 649-001	MEDG_V	649	001	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged	
MEDG_V 649-002	MEDG_V	649	002	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged	
MEDG_V 649-003	MEDG_V	649	003	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged	
MEDI_V 501-001	MEDI_V	501	001	Molecular and Cellular Biology of Experimental Medicine	W1	Cell and molecular function in normal tissues and in specific disease processes, including, genetic, viral, bacterial, immune, and physiological disorders. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
MEDI_V 502-001	MEDI_V	502	001	Experimental Medicine Methodology	W2	Laboratory experience with experimental models of human disease; critical reviews of their relevance. Laboratory rotations, oral presentations and written reviews. Registration requires permission of the Department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MEDI_V 503-001	MEDI_V	503	001	Introduction to Clinical, Patient Oriented and Translational Research	W1	Framing appropriate research questions, appropriate research designs, protocol development, key concepts in regulatory approval and human ethical oversight in Canada, privacy and knowledge translation. For students pursuing clinical, patient oriented and translational research. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of Experimental Medicine Program Director	In Person Learning	Arranged	Arranged	
MEDI_V 504-A_001	MEDI_V	504	A	A_001	Emerging Topics in Experimental Medicine	W1	Restricted to students in one of: Master of Science in Experimental Medicine or Doctor of Philosophy in Experimental Medicine. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.
MEDI_V 510-001	MEDI_V	510	001	Nephrology	W2	Mechanisms of regulation of acid-base balance, fluid and electrolyte content, excretion of proteins and organic substances in kidney disease; abnormal renal mechanisms in hypertension. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MEDI_V 520-001	MEDI_V	520	001	Advanced Topics in Visual Sciences	W2	Fundamental principles of vision from basic physiology to clinical syndromes across the visual pathway spanning the globe, ocular structures including the retina, up to striate and extrastriate cortices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MEDI_V 530-005	MEDI_V	530	005	Gastroenterology	W1-2	Pathogenesis and abnormal physiology in disease of the intestine and accessory organs; carcinogenesis; regulatory peptides; liver disease; inflammatory bowel disease; oesophageal dysfunction. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MEDI_V 535-001	MEDI_V	535	001	Research Seminar	W1	Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MEDI_V 535-002	MEDI_V	535	002	Research Seminar	W1-2	Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	

MEDI_V 540-001	MEDI_V	540		001	Advances in Neurology	W2	Pathogenesis and immunological mechanisms in acute and chronic virus infections of the central nervous system; immunologically induced non-infectious neurological disease. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-A_001	MEDI_V	548	A	A_001	Directed Studies in Experimental Medicine	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-A_004	MEDI_V	548	A	A_004	Directed Studies in Experimental Medicine	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-B_002	MEDI_V	548	B	B_002	Directed Studies in Experimental Medicine	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-B_005	MEDI_V	548	B	B_005	Directed Studies in Experimental Medicine	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-C_003	MEDI_V	548	C	C_003	Directed Studies in Experimental Medicine	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-C_006	MEDI_V	548	C	C_006	Directed Studies in Experimental Medicine	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-C_007	MEDI_V	548	C	C_007	Directed Studies in Experimental Medicine	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 548-D_008	MEDI_V	548	D	D_008	Directed Studies in Experimental Medicine	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 549-001	MEDI_V	549		001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 549-002	MEDI_V	549		002	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 549-003	MEDI_V	549		003	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MEDI_V 560-001	MEDI_V	560		001	Pulmonary Pathophysiology	W1	Same as PATH 518. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:30 p.m. - 3:00 p.m.
MEDI_V 570-001	MEDI_V	570		001	Cardiovascular Pathophysiology	W2	Pathogenesis, abnormal physiology and therapeutic approaches in heart disease including cardiac arrhythmia, heart failure, myocardial infarction, hypertension, atherosclerosis. This course is not eligible for Credit/D/Fail grading. Equivalency: PATH570	In Person Learning	Arranged	Arranged
MEDI_V 580-A_001	MEDI_V	580	A	A_001	Experimental Medicine: Infectious Diseases	W1	Supervised individual program of directed studies in experimental aspects of pathogenesis, diagnosis and treatment of infectious diseases, and mechanisms of host defence against microbial infections. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MEDI_V 590-001	MEDI_V	590		001	Molecular Regulation of Cell Growth and Differentiation	W1	Receptors, kinases, phosphatases, G proteins, adapters, transcription factors and other regulatory proteins involved in eukaryotic cell activation, growth and differentiation; defective cell signalling in human diseases; methods to track actions of toxins and drugs in experimental model systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: A third-year or higher Biochemistry course.	In Person Learning	Arranged	Arranged
MEDI_V 649-001	MEDI_V	649		001	Ph.D. Thesis	W1-2		In Person Learning	Arranged	Arranged
MEDI_V 649-002	MEDI_V	649		002	Ph.D. Thesis	W1		In Person Learning	Arranged	Arranged
MEDI_V 649-003	MEDI_V	649		003	Ph.D. Thesis	W2		In Person Learning	Arranged	Arranged
MES_V 300-201	MES_V	300		201	The Middle East: Critical Questions and Debates	W2	Critical questions and debates in Middle East Studies that shape scholarly and public perception of the region.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MES_V 450-C_301	MES_V	450	C	C_301	Directed Studies Project	W1-2	Projects that provide essential knowledge and skills for academic and/or community engagement in Middle East Studies. May include academic works or presentations, community projects, and/or digital initiatives. Prerequisite: MES 300, and permission of instructor.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
MICB_V 203-201	MICB_V	203		201	Basic Microbiology Laboratory	W2	Procedures and principles associated with isolation, characterization and handling of microorganisms. Intended for students requiring a basic microbiology laboratory course. [1*-3-1*] Prerequisite: One of BIOL 112, SCIE 001.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.

MICB_V 203-L01	MICB_V	203	L01	Basic Microbiology Laboratory	W1	Procedures and principles associated with isolation, characterization and handling of microorganisms. Intended for students requiring a basic microbiology laboratory course. [1*-3-1*] Prerequisite: One of BIOL 112, SCIE 001.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
MICB_V 203-L02	MICB_V	203	L02	Basic Microbiology Laboratory	W2	Procedures and principles associated with isolation, characterization and handling of microorganisms. Intended for students requiring a basic microbiology laboratory course. [1*-3-1*] Prerequisite: One of BIOL 112, SCIE 001.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
MICB_V 205-201	MICB_V	205	201	Fundamental Data Science in Microbiology and Immunology	W2	Foundations in data science course that incorporates the use of biological data science tools to perform survey-level analysis of microbiology and immunology datasets. [3-0-0] Prerequisite: DSCI 100.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MICB_V 211-101	MICB_V	211	101	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MICB_V 211-201	MICB_V	211	201	Foundations of Microbiology	W2	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MICB_V 211-202	MICB_V	211	202	Foundations of Microbiology	W2	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MICB_V 211-203	MICB_V	211	203	Foundations of Microbiology	W2	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Arranged	Arranged
MICB_V 211-T01	MICB_V	211	T01	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
MICB_V 211-T02	MICB_V	211	T02	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MICB_V 211-T03	MICB_V	211	T03	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
MICB_V 211-T04	MICB_V	211	T04	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
MICB_V 211-T05	MICB_V	211	T05	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
MICB_V 211-T06	MICB_V	211	T06	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MICB_V 211-T07	MICB_V	211	T07	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
MICB_V 211-T08	MICB_V	211	T08	Foundations of Microbiology	W1	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
MICB_V 211-T09	MICB_V	211	T09	Foundations of Microbiology	W2	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
MICB_V 211-T10	MICB_V	211	T10	Foundations of Microbiology	W2	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MICB_V 211-T11	MICB_V	211	T11	Foundations of Microbiology	W2	Prokaryotic diversity and the impact and applications of microbial metabolic, genetic, and growth processes in environmental contexts. Bacteria-human interactions in health and disease, mode of action of antibiotics and antibiotic resistance, virulence factors of bacteria, and host response to infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.



MICB_V 212-T10	MICB_V	212	T10	Introductory Immunology & Virology	W2	Innate and adaptive immune responses to bacterial and viral pathogens, autoimmunity, allergies and graft rejection; virus structure, replication cycles, pathogenesis and vaccines; data analysis of foundational immunology and virology experiments. [3-0-1] Prerequisite: One of BIOL 112, BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
MICB_V 212-T11	MICB_V	212	T11	Introductory Immunology & Virology	W2	Innate and adaptive immune responses to bacterial and viral pathogens, autoimmunity, allergies and graft rejection; virus structure, replication cycles, pathogenesis and vaccines; data analysis of foundational immunology and virology experiments. [3-0-1] Prerequisite: One of BIOL 112, BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
MICB_V 212-T12	MICB_V	212	T12	Introductory Immunology & Virology	W2	Innate and adaptive immune responses to bacterial and viral pathogens, autoimmunity, allergies and graft rejection; virus structure, replication cycles, pathogenesis and vaccines; data analysis of foundational immunology and virology experiments. [3-0-1] Prerequisite: One of BIOL 112, BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
MICB_V 212-T13	MICB_V	212	T13	Introductory Immunology & Virology	W2	Innate and adaptive immune responses to bacterial and viral pathogens, autoimmunity, allergies and graft rejection; virus structure, replication cycles, pathogenesis and vaccines; data analysis of foundational immunology and virology experiments. [3-0-1] Prerequisite: One of BIOL 112, BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
MICB_V 212-T14	MICB_V	212	T14	Introductory Immunology & Virology	W2	Innate and adaptive immune responses to bacterial and viral pathogens, autoimmunity, allergies and graft rejection; virus structure, replication cycles, pathogenesis and vaccines; data analysis of foundational immunology and virology experiments. [3-0-1] Prerequisite: One of BIOL 112, BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
MICB_V 212-T15	MICB_V	212	T15	Introductory Immunology & Virology	W1	Innate and adaptive immune responses to bacterial and viral pathogens, autoimmunity, allergies and graft rejection; virus structure, replication cycles, pathogenesis and vaccines; data analysis of foundational immunology and virology experiments. [3-0-1] Prerequisite: One of BIOL 112, BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Arranged	Arranged
MICB_V 212-T16	MICB_V	212	T16	Introductory Immunology & Virology	W2	Innate and adaptive immune responses to bacterial and viral pathogens, autoimmunity, allergies and graft rejection; virus structure, replication cycles, pathogenesis and vaccines; data analysis of foundational immunology and virology experiments. [3-0-1] Prerequisite: One of BIOL 112, BIOL 200, BMEG 245, SCIE 001.	In Person Learning	Arranged	Arranged
MICB_V 301-101	MICB_V	301	101	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MICB_V 301-T01	MICB_V	301	T01	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MICB_V 301-T02	MICB_V	301	T02	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MICB_V 301-T03	MICB_V	301	T03	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MICB_V 301-T04	MICB_V	301	T04	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MICB_V 301-T05	MICB_V	301	T05	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MICB_V 301-T06	MICB_V	301	T06	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MICB_V 301-T07	MICB_V	301	T07	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MICB_V 301-T08	MICB_V	301	T08	Microbial Ecophysiology	W1	Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
MICB_V 302-101	MICB_V	302	101	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MICB_V 302-T01	MICB_V	302	T01	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
MICB_V 302-T02	MICB_V	302	T02	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
MICB_V 302-T03	MICB_V	302	T03	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Wed	12:30 p.m. - 1:30 p.m.
MICB_V 302-T04	MICB_V	302	T04	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.

MICB_V 302-T05	MICB_V	302	T05	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MICB_V 302-T06	MICB_V	302	T06	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
MICB_V 302-T07	MICB_V	302	T07	Immunology	W1	Mechanisms of innate and adaptive immune responses. Hematopoiesis, development of T and B lymphocytes, leukocyte migration, antigen processing/presentation and the major histocompatibility complex, immune responses against pathogens, and diseases associated with aberrant immune responses. [3-0-1] Prerequisite: One of MICB 212, MICB 202.	In Person Learning	Arranged	Arranged
MICB_V 306-101	MICB_V	306	101	Molecular Virology	W1	Introduction to virus structure and replication. Detailed examination of selected viruses including polio, HIV and cancer-causing retroviruses. Development of vaccines and anti-viral drugs, the use of virus vectors to cure genetic diseases. [3-0-1] Prerequisite: One of MICB 212, MICB 202, BIOT 380.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MICB_V 306-T01	MICB_V	306	T01	Molecular Virology	W1	Introduction to virus structure and replication. Detailed examination of selected viruses including polio, HIV and cancer-causing retroviruses. Development of vaccines and anti-viral drugs, the use of virus vectors to cure genetic diseases. [3-0-1] Prerequisite: One of MICB 212, MICB 202, BIOT 380.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
MICB_V 306-T04	MICB_V	306	T04	Molecular Virology	W1	Introduction to virus structure and replication. Detailed examination of selected viruses including polio, HIV and cancer-causing retroviruses. Development of vaccines and anti-viral drugs, the use of virus vectors to cure genetic diseases. [3-0-1] Prerequisite: One of MICB 212, MICB 202, BIOT 380.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
MICB_V 306-T06	MICB_V	306	T06	Molecular Virology	W1	Introduction to virus structure and replication. Detailed examination of selected viruses including polio, HIV and cancer-causing retroviruses. Development of vaccines and anti-viral drugs, the use of virus vectors to cure genetic diseases. [3-0-1] Prerequisite: One of MICB 212, MICB 202, BIOT 380.	In Person Learning	Thu	12:30 p.m. - 1:30 p.m.
MICB_V 308-201	MICB_V	308	201	Paradigms in Bacterial Pathogenesis	W2	Mechanisms of bacterial pathogenesis including adherence, invasion, intracellular survival, toxins, host defenses and microbial evasion strategies, antibiotics, and vaccines. Introduction to experimental approaches used to study bacterial pathogens. [3-0-0] Prerequisite: Either (a) one of MICB 211, MICB 202 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
MICB_V 322-101	MICB_V	322	101	Molecular Microbiology Laboratory	W1	Aseptic handling and characterization of microbes, growth properties, enzyme assays, protein analysis and plasmid isolation. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisites: MICB 211 (or 201) Co-requisites: All of BIOL 200, BIOL 201 (or BIOC 202 or 203), CHEM 233, and MICB 212 (or 202).	In Person Learning	Fri	1:30 p.m. - 3:30 p.m.
MICB_V 322-L01	MICB_V	322	L01	Molecular Microbiology Laboratory	W1	Aseptic handling and characterization of microbes, growth properties, enzyme assays, protein analysis and plasmid isolation. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisites: MICB 211 (or 201) Co-requisites: All of BIOL 200, BIOL 201 (or BIOC 202 or 203), CHEM 233, and MICB 212 (or 202).	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
MICB_V 322-L02	MICB_V	322	L02	Molecular Microbiology Laboratory	W1	Aseptic handling and characterization of microbes, growth properties, enzyme assays, protein analysis and plasmid isolation. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisites: MICB 211 (or 201) Co-requisites: All of BIOL 200, BIOL 201 (or BIOC 202 or 203), CHEM 233, and MICB 212 (or 202).	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.
MICB_V 322-L03	MICB_V	322	L03	Molecular Microbiology Laboratory	W1	Aseptic handling and characterization of microbes, growth properties, enzyme assays, protein analysis and plasmid isolation. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisites: MICB 211 (or 201) Co-requisites: All of BIOL 200, BIOL 201 (or BIOC 202 or 203), CHEM 233, and MICB 212 (or 202).	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.
MICB_V 323-201	MICB_V	323	201	Molecular Immunology and Virology Laboratory	W2	Genetic manipulations of bacteria, introductory immunological and virological procedures, tissue culture. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisite: [MICB322]	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MICB_V 323-L01	MICB_V	323	L01	Molecular Immunology and Virology Laboratory	W2	Genetic manipulations of bacteria, introductory immunological and virological procedures, tissue culture. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisite: [MICB322]	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
MICB_V 323-L02	MICB_V	323	L02	Molecular Immunology and Virology Laboratory	W2	Genetic manipulations of bacteria, introductory immunological and virological procedures, tissue culture. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisite: [MICB322]	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.
MICB_V 323-L03	MICB_V	323	L03	Molecular Immunology and Virology Laboratory	W2	Genetic manipulations of bacteria, introductory immunological and virological procedures, tissue culture. Restricted to students in Microbiology and Immunology specializations. [2-4-0] Prerequisite: [MICB322]	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.
MICB_V 325-201	MICB_V	325	201	Analysis of Microbial Genes and Genomes	W2	Genetic, molecular biological and bioinformatic approaches for the analysis of microbial genomes, gene structure-function and gene expression with emphasis on bacteria. [3-0-0] Prerequisite: One of MICB 211, MICB 201, BIOL 234.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MICB_V 325-T03	MICB_V	325	T03	Analysis of Microbial Genes and Genomes	W2	Genetic, molecular biological and bioinformatic approaches for the analysis of microbial genomes, gene structure-function and gene expression with emphasis on bacteria. [3-0-0] Prerequisite: One of MICB 211, MICB 201, BIOL 234.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MICB_V 325-T04	MICB_V	325	T04	Analysis of Microbial Genes and Genomes	W2	Genetic, molecular biological and bioinformatic approaches for the analysis of microbial genomes, gene structure-function and gene expression with emphasis on bacteria. [3-0-0] Prerequisite: One of MICB 211, MICB 201, BIOL 234.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MICB_V 325-T05	MICB_V	325	T05	Analysis of Microbial Genes and Genomes	W2	Genetic, molecular biological and bioinformatic approaches for the analysis of microbial genomes, gene structure-function and gene expression with emphasis on bacteria. [3-0-0] Prerequisite: One of MICB 211, MICB 201, BIOL 234.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MICB_V 353-201	MICB_V	353	201	Food Microbiology Laboratory	W2	Procedures and principles associated with isolation, enumeration, characterization and handling of microorganisms. Restricted to students registered in the Food Science program. [1-2-0] Prerequisite: One of BIOL 112, MICB 211, MICB 201, SCIE 001.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MICB_V 353-L02	MICB_V	353	L02	Food Microbiology Laboratory	W2	Procedures and principles associated with isolation, enumeration, characterization and handling of microorganisms. Restricted to students registered in the Food Science program. [1-2-0] Prerequisite: One of BIOL 112, MICB 211, MICB 201, SCIE 001.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.

MICB_V 398-610	MICB_V	398	610	Co-operative Work Placement I	W1	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) one of MICB 211, MICB 201 and one of MICB 212, MICB 202; or (b) BIOT 380.	In Person Learning	Arranged	Arranged
MICB_V 398-620	MICB_V	398	620	Co-operative Work Placement I	W1-2	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) one of MICB 211, MICB 201 and one of MICB 212, MICB 202; or (b) BIOT 380.	In Person Learning	Arranged	Arranged
MICB_V 399-610	MICB_V	399	610	Co-operative Work Placement II	W1	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: MICB 398.	In Person Learning	Arranged	Arranged
MICB_V 399-620	MICB_V	399	620	Co-operative Work Placement II	W2	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: MICB 398.	In Person Learning	Arranged	Arranged
MICB_V 402-101	MICB_V	402	101	Advanced Immunology	W1	Molecular basis of lymphocyte development, activation and adhesion; immunogenetics and the major histocompatibility complex. Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1] Prerequisite: One of MICB 302, BIOT 380. If MICB 302 is used as the prerequisite for MICB 402, students are required to take one of the following as a corequisite: BIOL 234, BIOL 335, MICB 325.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MICB_V 402-T01	MICB_V	402	T01	Advanced Immunology	W1	Molecular basis of lymphocyte development, activation and adhesion; immunogenetics and the major histocompatibility complex. Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1] Prerequisite: One of MICB 302, BIOT 380. If MICB 302 is used as the prerequisite for MICB 402, students are required to take one of the following as a corequisite: BIOL 234, BIOL 335, MICB 325.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
MICB_V 402-T03	MICB_V	402	T03	Advanced Immunology	W1	Molecular basis of lymphocyte development, activation and adhesion; immunogenetics and the major histocompatibility complex. Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1] Prerequisite: One of MICB 302, BIOT 380. If MICB 302 is used as the prerequisite for MICB 402, students are required to take one of the following as a corequisite: BIOL 234, BIOL 335, MICB 325.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
MICB_V 404-201	MICB_V	404	201	Topics in Molecular Bacterial Pathogenesis	W2	A lecture/discussion/library research course. Topics such as antibiotic resistance, pathogen genomics; host-pathogen interactions; evolution of pathogens; host responses to infection, invasive mechanisms, resistance mechanisms. [1-0-4] Prerequisite: MICB 302 and one of MICB 308, MICB 408.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MICB_V 404-202	MICB_V	404	202	Topics in Molecular Bacterial Pathogenesis	W2	A lecture/discussion/library research course. Topics such as antibiotic resistance, pathogen genomics; host-pathogen interactions; evolution of pathogens; host responses to infection, invasive mechanisms, resistance mechanisms. [1-0-4] Prerequisite: MICB 302 and one of MICB 308, MICB 408.	In Person Learning	Arranged	Arranged
MICB_V 405-101	MICB_V	405	101	Bioinformatics	W1	Computational methods to analyze genome and protein sequences to derive structural and functional information. Related topics in functional genomics. [3-0-1] Prerequisite: One of MICB 301, MICB 325, BIOC 302, BIOC 303, BIOL 335, BIOT 380.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
MICB_V 405-T01	MICB_V	405	T01	Bioinformatics	W1	Computational methods to analyze genome and protein sequences to derive structural and functional information. Related topics in functional genomics. [3-0-1] Prerequisite: One of MICB 301, MICB 325, BIOC 302, BIOC 303, BIOL 335, BIOT 380.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
MICB_V 405-T02	MICB_V	405	T02	Bioinformatics	W1	Computational methods to analyze genome and protein sequences to derive structural and functional information. Related topics in functional genomics. [3-0-1] Prerequisite: One of MICB 301, MICB 325, BIOC 302, BIOC 303, BIOL 335, BIOT 380.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MICB_V 406-201	MICB_V	406	201	Topics in Molecular Virology	W2	Presentations, library research, paper reviews, class discussions about current research in virology. Topics such as molecular targets in viral therapy; chronic viral infection; virus-host cell interaction. [1-0-4] Prerequisite: MICB 306.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MICB_V 406-202	MICB_V	406	202	Topics in Molecular Virology	W2	Presentations, library research, paper reviews, class discussions about current research in virology. Topics such as molecular targets in viral therapy; chronic viral infection; virus-host cell interaction. [1-0-4] Prerequisite: MICB 306.	In Person Learning	Arranged	Arranged
MICB_V 407-101	MICB_V	407	101	Viral Infections in Humans.	W1	Interactions between viruses and humans; pathogenesis; persistence and viral oncogenesis; virological diagnosis and treatment. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-0-0] Prerequisite: MICB306	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
MICB_V 408-201	MICB_V	408	201	Advanced Bacterial Pathogenesis	W2	Current and emerging themes in bacterial pathogenesis including cellular microbiology, bacterial cell biology processes and their role in virulence including secretion systems to deliver virulence factors and immune evasion strategies employed by pathogens. Development of antibiotics and resistance to antibiotics. [3-0-0] Prerequisite: MICB 308.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MICB_V 412-201	MICB_V	412	201	Topics in Immunological Research	W2	Presentations, library research, paper reviews and class discussion on selected areas of advanced molecular and cellular immunological research. [1-0-4] Prerequisite: [MICB302] AND [MICB402, MEDG410]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MICB_V 412-202	MICB_V	412	202	Topics in Immunological Research	W2	Presentations, library research, paper reviews and class discussion on selected areas of advanced molecular and cellular immunological research. [1-0-4] Prerequisite: [MICB302] AND [MICB402, MEDG410]	In Person Learning	Arranged	Arranged
MICB_V 413-201	MICB_V	413	201	Topics in Microbiome Research	W2	Critical examination and discussion of contemporary research literature concerning the impact of host-associated microbiomes on host development, health and disease with a focus on humans. Priority given to students in Microbiology and Immunology specializations. [3-0-0] Prerequisite: Either (a) MICB 302 and one of MICB 308, MICB 325, BIOL 335; or (b) BIOT 380. And fourth-year standing in Science.	In Person Learning	Wed	1:30 p.m. - 5:30 p.m.
MICB_V 413-202	MICB_V	413	202	Topics in Microbiome Research	W2	Critical examination and discussion of contemporary research literature concerning the impact of host-associated microbiomes on host development, health and disease with a focus on humans. Priority given to students in Microbiology and Immunology specializations. [3-0-0] Prerequisite: Either (a) MICB 302 and one of MICB 308, MICB 325, BIOL 335; or (b) BIOT 380. And fourth-year standing in Science.	In Person Learning	Arranged	Arranged
MICB_V 418-201	MICB_V	418	201	Industrial Microbiology and Biotechnology	W2	Exploitation of microbial and animal cells for the industrial production of chemicals ranging from alcohol to therapeutic proteins. Genetic manipulation of cellular characteristics, fermentation methods, patenting and governmental approval processes. [3-0-0] Corequisite: One of BIOL 335, MICB 325, BIOT 380.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

MICB_V 418-T01	MICB_V	418		T01	Industrial Microbiology and Biotechnology	W2	Exploitation of microbial and animal cells for the industrial production of chemicals ranging from alcohol to therapeutic proteins. Genetic manipulation of cellular characteristics, fermentation methods, patenting and governmental approval processes. [3-0-0] Corequisite: One of BIOL 335, MICB 325, BIOT 380.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
MICB_V 418-T02	MICB_V	418		T02	Industrial Microbiology and Biotechnology	W2	Exploitation of microbial and animal cells for the industrial production of chemicals ranging from alcohol to therapeutic proteins. Genetic manipulation of cellular characteristics, fermentation methods, patenting and governmental approval processes. [3-0-0] Corequisite: One of BIOL 335, MICB 325, BIOT 380.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
MICB_V 425-201	MICB_V	425		201	Microbial Ecological Genomics	W2	Intrinsic and extrinsic forces driving prokaryotic genome evolution. Gene transfer; microbial species concepts; community genome structure, function and dynamics; ecological impacts of microbial genome diversity. Emphasis on problem solving and experimental design. [3-3-0] Prerequisite: One of BIOL 335, MICB 325, BIOT 380.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MICB_V 430-A_101	MICB_V	430	A	A_101	Seminar in Microbiological Literature	W1	Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed Fri	12:30 p.m. - 2:00 p.m.
MICB_V 430-A_102	MICB_V	430	A	A_102	Seminar in Microbiological Literature	W1	Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MICB_V 430-B_201	MICB_V	430	B	B_201	Seminar in Microbiological Literature	W2	Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed Fri	12:00 p.m. - 1:30 p.m.
MICB_V 430-B_202	MICB_V	430	B	B_202	Seminar in Microbiological Literature	W2	Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MICB_V 448-A_101	MICB_V	448	A	A_101	Directed Research	W1	A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MICB_V 448-B_201	MICB_V	448	B	B_201	Directed Research	W2	A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MICB_V 448-C_001	MICB_V	448	C	C_001	Directed Research	W1-2	A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MICB_V 448-L_201	MICB_V	448	L	L_201	Directed Research	W2	A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MICB_V 448-S_201	MICB_V	448	S	S_201	Directed Research	W2	A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
MICB_V 449-001	MICB_V	449		001	Research Problem	W1-2	A laboratory investigation in the final year of the Honours program. The results are presented in a written report, to be reviewed by oral examination. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399.	In Person Learning	Arranged	Arranged
MICB_V 471-101	MICB_V	471		101	Laboratory Research in Microbiology and Immunology	W1	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
MICB_V 471-201	MICB_V	471		201	Laboratory Research in Microbiology and Immunology	W2	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
MICB_V 471-L01	MICB_V	471		L01	Laboratory Research in Microbiology and Immunology	W1	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
MICB_V 471-L02	MICB_V	471		L02	Laboratory Research in Microbiology and Immunology	W1	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.
MICB_V 471-L03	MICB_V	471		L03	Laboratory Research in Microbiology and Immunology	W2	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Tue	1:00 p.m. - 5:00 p.m.
MICB_V 471-L04	MICB_V	471		L04	Laboratory Research in Microbiology and Immunology	W2	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.
MICB_V 471-L05	MICB_V	471		L05	Laboratory Research in Microbiology and Immunology	W1	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Arranged	Arranged

MICB_V 471-L06	MICB_V	471	L06	Laboratory Research in Microbiology and Immunology	W2	A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BIOT 380.	In Person Learning	Arranged	Arranged
MICB_V 475-101	MICB_V	475	101	Data Science Research in Microbiology and Immunology	W1	A team-based data science research experience in microbiology and immunology. [3-0-0] Prerequisite: Either (a) MICB 322 and one of MICB 325, BIOL 335; or (b) BIOT 380.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MICB_V 475-201	MICB_V	475	201	Data Science Research in Microbiology and Immunology	W2	A team-based data science research experience in microbiology and immunology. [3-0-0] Prerequisite: Either (a) MICB 322 and one of MICB 325, BIOL 335; or (b) BIOT 380. Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) MICB 399 or (b) BIOT 380. and completion of two co-op work terms.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MICB_V 498-610	MICB_V	498	610	Co-operative Work Placement III	W1	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) MICB 399 or (b) BIOT 380. and completion of two co-op work terms.	In Person Learning	Arranged	Arranged
MICB_V 498-620	MICB_V	498	620	Co-operative Work Placement III	W2	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) MICB 399 or (b) BIOT 380. and completion of two co-op work terms.	In Person Learning	Arranged	Arranged
MICB_V 498-CP1	MICB_V	498	CP1	Co-operative Work Placement III	W1-2	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) MICB 399 or (b) BIOT 380. and completion of two co-op work terms.	In Person Learning	Arranged	Arranged
MICB_V 498-CP2	MICB_V	498	CP2	Co-operative Work Placement III	W1-2	Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) MICB 399 or (b) BIOT 380. and completion of two co-op work terms.	In Person Learning	Arranged	Arranged
MICB_V 499-610	MICB_V	499	610	Co-operative Work Placement IV	W1	Work experience in an industrial research setting, taken during the Winter Session (Term 1) of fifth year. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: MICB 498.	In Person Learning	Arranged	Arranged
MICB_V 499-620	MICB_V	499	620	Co-operative Work Placement IV	W2	Work experience in an industrial research setting, taken during the Winter Session (Term 1) of fifth year. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: MICB 498.	In Person Learning	Arranged	Arranged
MICB_V 499-CP1	MICB_V	499	CP1	Co-operative Work Placement IV	W1-2	Work experience in an industrial research setting, taken during the Winter Session (Term 1) of fifth year. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: MICB 498.	In Person Learning	Arranged	Arranged
MICB_V 499-CP2	MICB_V	499	CP2	Co-operative Work Placement IV	W1-2	Work experience in an industrial research setting, taken during the Winter Session (Term 1) of fifth year. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: MICB 498.	In Person Learning	Arranged	Arranged
MICB_V 502-201	MICB_V	502	201	Advanced Immunogenetics	W2	Consult the Credit Exclusion List in the Faculty of Science section of the Calendar. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
MICB_V 506-A_102	MICB_V	506	A	A_102	W1	Microbiological and Immunological Research Developing, discussing, and undertaking research projects. Oral communication skills, peer review skills, scientific ethics, and the ability to critically evaluate papers in the literature. To be taken only with permission of the department head. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
MICB_V 506-B_201	MICB_V	506	B	B_201	W2	Microbiological and Immunological Research Developing, discussing, and undertaking research projects. Oral communication skills, peer review skills, scientific ethics, and the ability to critically evaluate papers in the literature. To be taken only with permission of the department head. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
MICB_V 507-101	MICB_V	507	101	Topics in Molecular Pathogenesis and Immunology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
MICB_V 507-201	MICB_V	507	201	Topics in Molecular Pathogenesis and Immunology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
MICB_V 520-A_101	MICB_V	520	A	A_101	W1	Topics in Microbiology, Immunology and Virology Selected topics in a specific area within Microbiology, Immunology and Virology. May be taken more than once for credit with permission of the department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MICB_V 520-B_201	MICB_V	520	B	B_201	W2	Topics in Microbiology, Immunology and Virology Selected topics in a specific area within Microbiology, Immunology and Virology. May be taken more than once for credit with permission of the department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MICB_V 520-C_202	MICB_V	520	C	C_202	W2	Topics in Microbiology, Immunology and Virology Selected topics in a specific area within Microbiology, Immunology and Virology. May be taken more than once for credit with permission of the department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MICB_V 530-101	MICB_V	530	101	Student Seminars in Microbiology, Immunology and Virology	W1	Student seminars on selected papers from the microbiology, immunology and virology literature. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	12:30 p.m. - 2:00 p.m.
MICB_V 549-001	MICB_V	549	001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MICB_V 549-101	MICB_V	549	101	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MICB_V 549-201	MICB_V	549	201	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	7:00 a.m. - 8:00 a.m.

MICB_V 575-101	MICB_V	575	101	Data Science Research in Microbiology and Immunology	W1	A team-based data science research experience in microbiology and immunology. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MICB_V 575-201	MICB_V	575	201	Data Science Research in Microbiology and Immunology	W2	A team-based data science research experience in microbiology and immunology. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MICB_V 649-001	MICB_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
MICB_V 649-101	MICB_V	649	101	Doctoral Dissertation	W1		In Person Learning	Thu	2:30 p.m. - 4:00 p.m.
MICB_V 649-201	MICB_V	649	201	Doctoral Dissertation	W2		In Person Learning	Mon	8:00 a.m. - 9:30 a.m.
MIDW_V 101-001	MIDW_V	101	001	Counselling for Maternity Care Providers	W2	Theory, knowledge, strategies, and skills of person-centered counselling including family systems, trauma theory, theory, grief counselling, motivational interviewing skills, self-awareness and mindfulness, interprofessional communication, and cultural competency in continuity of care. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
MIDW_V 102-001	MIDW_V	102	001	Birth and its Meanings	W1	An interdisciplinary study of pregnancy and childbirth drawing on and integrating the disciplines of psychology, sociology, philosophy of science, anthropology, women's studies, and cultural studies. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
MIDW_V 103-001	MIDW_V	103	001	Applied Health Services for Maternity Providers	W1	Introduction to diagnostics related to cellular and humoral immune responses in pregnant women and newborns, the properties of viruses, epidemiology, the principles of bacterial pathogenesis, and related physiologic responses. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
MIDW_V 104-001	MIDW_V	104	001	Lactation and Infant Feeding for Maternity Care Providers	W1	Breastfeeding physiology, pathophysiology, and strategies for support of the dyad based on best-practice principles. Discussion of major Canadian and international initiatives for the support and protection of breastfeeding. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
MIDW_V 106-001	MIDW_V	106	001	Reproductive Anatomy and Physiology	W1	Covers the anatomy and physiology of conception, fetal growth, pregnancy, labour, birth, transition to extra-uterine life, postpartum and lactation through lectures and lab sessions. Emphasizes anatomy and physiology as related to professional midwifery practice. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
MIDW_V 107-001	MIDW_V	107	001	Physical Assessment	W1	Principles of physical and psychological assessment of the mother and neonate. A series of lectures and clinical lab sessions. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
MIDW_V 108-002	MIDW_V	108	002	Theoretical Foundations for Midwifery Practice	W2	Scope of practice of a midwife, regulatory framework, skills for basic midwifery practice. A series of lectures and clinical lab sessions. This course is not eligible for Credit/D/Fail grading. [5-0-0]	In Person Learning	Tue Thu	1:30 p.m. - 4:30 p.m.
MIDW_V 115-001	MIDW_V	115	001	Research Methods for Midwives	W2	Research designs used in midwifery research, types of studies reported in the midwifery and health care literature, research methodology and basic principles of epidemiology, biostatistics and social research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
MIDW_V 120-001	MIDW_V	120	001	Midwifery and Social Justice	W2	Social justice frameworks and issues as they pertain to individuals' engagement with health care systems. Draws on various disciplines, including sociology, anthropology, gender studies, and cultural studies.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
MIDW_V 125-001	MIDW_V	125	001	Pharmacology for Maternity Care Providers	W2	An overview of basic concepts in pharmacology, pharmacy, and therapeutics relevant to the practice of midwifery in Canada. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MIDW_V 200-001	MIDW_V	200	001	Midwifery Clinical Care - Antepartum, Postpartum and Newborn	W1	Clinical care of women experiencing normal pregnancy, labour, birth, and puerperium. Clinical education experiences in preventative and therapeutic midwifery care with emphasis on prenatal and postnatal midwifery care. Clinical practice education opportunities within the province. This course is not eligible for Credit/D/Fail grading. [18-0-0]	In Person Learning	Mon Tue Wed Fri	9:00 a.m. - 4:30 p.m.
MIDW_V 201-001	MIDW_V	201	001	Midwifery Theory for Antepartum, Postpartum and Newborn Care	W1	Online situation-based learning tutorials occurring simultaneously with MIDW 200 clinical placement. This course is not eligible for Credit/D/Fail grading. [3-18-0]	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
MIDW_V 210-001	MIDW_V	210	001	Evidence-Informed Midwifery	W1	Principles of evidence-informed midwifery, what counts as evidence? Making sense of the evidence, applying the evidence in practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
MIDW_V 215-001	MIDW_V	215	001	Ethics in Maternity Care	W2	Application of ethical theory in midwifery and health care management. [1-0-0]	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
MIDW_V 230-001	MIDW_V	230	001	Midwifery Theory for Primary Care	W2	Care of normal pregnancy, labour, birth, and puerperium with an emphasis on the intrapartum period and assessment and management skills. Includes a four-week intensive session in Vancouver, a series of online tutorials, and simulation and skills lab practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
MIDW_V 240-002	MIDW_V	240	002	Midwifery Clinical Care - Intrapartum and Postpartum	W2	Clinical education experiences with the preventative and therapeutic midwifery care of normal pregnancy, labour, birth, and puerperium with an emphasis on the intrapartum period and assessment and management skills. A clinical practicum in locations around the province. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Fri	9:00 a.m. - 4:00 p.m.
MIDW_V 305-001	MIDW_V	305	001	Midwifery Theory for Variations in Primary Care	W1	Theoretical principles of care for pregnancy, birth, and the puerperium with an emphasis on the recognition and management of variations of normal and findings outside of normal. Consists of a one-week intensive time in Vancouver, during which emergency skills certification is acquired, and weekly web-based tutorials. [3-4-3]	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.

MIDW_V 320-001	MIDW_V	320	001	Midwifery Clinical Care - Variations of Normal	W1	Clinical education experiences with the preventative and therapeutic midwifery care of pregnancy, birth, and the puerperium. Emphasis on the recognition and management of variations of normal and findings outside normal. A 10-week practicum in locations around the province. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Fri	9:00 a.m. - 4:00 p.m.	
MIDW_V 322-002	MIDW_V	322	002	Midwifery Primary Care Clinical	W2	Clinical course focusing on consolidation of skills and knowledge of all aspects of midwifery care. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Fri	9:00 a.m. - 4:00 p.m.	
MIDW_V 325-002	MIDW_V	325	002	Professional Issues in Midwifery	W2	Professional issues in midwifery including responsibilities and conduct, self-care, peer review, interprofessional relations and communication, legal and business concepts, and continuous quality assurance and improvement in practice. A series of lectures and workshops delivered in an intensive format over two weeks. This course is delivered through synchronous and asynchronous online coursework while learners are in distributed clinical placements.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.	
MIDW_V 326-001	MIDW_V	326	001	Dialogue and Decisions: Advancing Person-Centred Care	W1	Build knowledge and competencies to navigate complex human interactions around decisions in health care. Flexible, online course for health professional learners. Learning activities include small group, cross-profession discussions, best practice video exemplars, case-based and self-reflection exercises, and a simulation. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
MIDW_V 326-002	MIDW_V	326	002	Dialogue and Decisions: Advancing Person-Centred Care	W2	Build knowledge and competencies to navigate complex human interactions around decisions in health care. Flexible, online course for health professional learners. Learning activities include small group, cross-profession discussions, best practice video exemplars, case-based and self-reflection exercises, and a simulation. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.	
MIDW_V 360-001	MIDW_V	360	001	Global Maternal Infant Health	W2	Theoretical course in preparation for global clinical placement. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: MIDW 240.	In Person Learning	Arranged	Arranged	
MIDW_V 405-001	MIDW_V	405	001	Theory for Advanced Midwifery Care	W1	Theoretical principles for midwifery care of pregnancy, labour, birth, newborns, and the puerperium. Emphasis on assessment and management skills for abnormal situations. Includes a five-day intensive session in Vancouver, a series of online tutorials, and lab practice. [1-2-3]	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
MIDW_V 420-001	MIDW_V	420	001	Midwifery Clinical Care - Abnormal and Unexpected Conditions	W1	Clinical education for midwifery care of pregnancy, birth, and the puerperium with an emphasis on abnormal situations in pregnancy, labour and birth, and in newborns. Clinical practicum around the province. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Fri	9:00 a.m. - 6:00 p.m.	
MIDW_V 435-001	MIDW_V	435	001	Comprehensive Midwifery Theory and Practice	W2	In-depth review of the theoretical principles and evidence basis for comprehensive midwifery care through tutorials and case reviews.	In Person Learning	Thu	9:00 a.m. - 1:00 p.m.	
MIDW_V 440-001	MIDW_V	440	001	Clinical Clerkship	W2	Students assume a primary care role in clinical placements in midwifery practices across the provinces. Demonstration of independent decision making and application of the full range of their academic knowledge to professional practice. A practicum under the supervision of a registered midwife. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Fri	9:00 a.m. - 6:00 p.m.	
MIDW_V 499-A_001	MIDW_V	499	A	A_001	Midwifery Self-Directed Course	W1	Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MIDW_V 499-B_001	MIDW_V	499	B	B_001	Midwifery Self-Directed Course	W1	Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MIDW_V 499-C_001	MIDW_V	499	C	C_001	Midwifery Self-Directed Course	W1	Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MIDW_V 499-I_001	MIDW_V	499	I	I_001	Midwifery Self-Directed Course	W1	Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MIDW_V 499-K_001	MIDW_V	499	K	K_001	Midwifery Self-Directed Course	W1	Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 200-101	MINE_V	200	101	Mineral Resources Engineering I	W1	Introduction to the mining life cycle and the design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social license to operate. This course is not eligible for Credit/D/Fail grading [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
MINE_V 200-L1A	MINE_V	200	L1A	Mineral Resources Engineering I	W1	Introduction to the mining life cycle and the design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social license to operate. This course is not eligible for Credit/D/Fail grading [3-0-0]	In Person Learning	Arranged	Arranged	
MINE_V 200-L1B	MINE_V	200	L1B	Mineral Resources Engineering I	W1	Introduction to the mining life cycle and the design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social license to operate. This course is not eligible for Credit/D/Fail grading [3-0-0]	In Person Learning	Arranged	Arranged	
MINE_V 201-201	MINE_V	201	201	Mineral Resources Engineering II	W2	The design, planning, and operation, and closure of mining operations, with a focus on mineral processing technologies, plant design, waste and tailings management, and the future of mining. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: MINE 200.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
MINE_V 201-L2A	MINE_V	201	L2A	Mineral Resources Engineering II	W2	The design, planning, and operation, and closure of mining operations, with a focus on mineral processing technologies, plant design, waste and tailings management, and the future of mining. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: MINE 200.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
MINE_V 202-101	MINE_V	202	101	Mineralogy for Resources Engineering	W1	Fundamentals of rock and minerals formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CHEM 154	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.	

MINE_V 202-L1A	MINE_V	202	L1A	Mineralogy for Resources Engineering	W1	Fundamentals of rock and minerals formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CHEM 154	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
MINE_V 202-L1B	MINE_V	202	L1B	Mineralogy for Resources Engineering	W1	Fundamentals of rock and minerals formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CHEM 154	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.
MINE_V 224-101	MINE_V	224	101	Mineralogy for Mining Engineering	W1	Fundamentals of the rock and minerals formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading. [3-2-0]	In Person Learning	Mon	8:00 a.m. - 9:30 a.m.
MINE_V 293-101	MINE_V	293	101	Seminar	W1	Oral presentations of topics on mine safety, and mining engineering by industry practitioners, faculty and/or stake- and rights-holders. [1-0-0]	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
MINE_V 302-201	MINE_V	302	201	Underground Mining and Design	W2	Selection, design, and development of underground mining methods based upon physical, geological, economic, and environmental constraints. Underground excavation methods and equipment selection. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Third-year standing.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
MINE_V 302-L2A	MINE_V	302	L2A	Underground Mining and Design	W2	Selection, design, and development of underground mining methods based upon physical, geological, economic, and environmental constraints. Underground excavation methods and equipment selection. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Third-year standing.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
MINE_V 303-201	MINE_V	303	201	Rock Engineering Fundamentals	W2	The study of the mechanical and structural properties of rock materials at the laboratory and field scale, with reference to common mining, geological and civil engineering problems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of MECH 260, CIVL 230.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
MINE_V 303-L2A	MINE_V	303	L2A	Rock Engineering Fundamentals	W2	The study of the mechanical and structural properties of rock materials at the laboratory and field scale, with reference to common mining, geological and civil engineering problems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of MECH 260, CIVL 230.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
MINE_V 303-L2B	MINE_V	303	L2B	Rock Engineering Fundamentals	W2	The study of the mechanical and structural properties of rock materials at the laboratory and field scale, with reference to common mining, geological and civil engineering problems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of MECH 260, CIVL 230.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MINE_V 310-101	MINE_V	310	101	Surface Mining and Design	W1	Surface mining methods, calculation of pit limits, cutoff grades, break-even criteria, stripping ratios, ultimate pit depth and dimensions, and pit sequencing. Geotechnical inputs to surface mine design. Loading and hauling equipment, production rates, capacity and systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Third-year standing.	In Person Learning	Tue	10:00 a.m. - 11:30 a.m.
MINE_V 310-L1A	MINE_V	310	L1A	Surface Mining and Design	W1	Surface mining methods, calculation of pit limits, cutoff grades, break-even criteria, stripping ratios, ultimate pit depth and dimensions, and pit sequencing. Geotechnical inputs to surface mine design. Loading and hauling equipment, production rates, capacity and systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Third-year standing.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
MINE_V 331-101	MINE_V	331	101	Physical Mineral Processes	W1	Mineral processing unit operations and sampling, crushing, grinding, screening, classification, gravity separation, magnetic separation, electrostatic separation, concentrate dewatering practices. [3-3-0] Prerequisite: Third Year Standing.	In Person Learning	Mon Fri	8:00 a.m. - 9:30 a.m.
MINE_V 331-L1A	MINE_V	331	L1A	Physical Mineral Processes	W1	Mineral processing unit operations and sampling, crushing, grinding, screening, classification, gravity separation, magnetic separation, electrostatic separation, concentrate dewatering practices. [3-3-0] Prerequisite: Third Year Standing.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
MINE_V 333-201	MINE_V	333	201	Flotation	W2	Theory and technology of flotation and ancillary processes. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Third Year Standing.	In Person Learning	Tue Thu	8:00 a.m. - 9:00 a.m.
MINE_V 333-L2A	MINE_V	333	L2A	Flotation	W2	Theory and technology of flotation and ancillary processes. This course is not eligible for Credit/D/Fail grading. [2-3-0] Prerequisite: Third Year Standing.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
MINE_V 350-101	MINE_V	350	101	Modelling and Simulation	W1	Methods for determining the behaviour of large scale industrial systems and their application to the design and analysis of such systems. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: STAT 251.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
MINE_V 350-L1A	MINE_V	350	L1A	Modelling and Simulation	W1	Methods for determining the behaviour of large scale industrial systems and their application to the design and analysis of such systems. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: STAT 251.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
MINE_V 380-201	MINE_V	380	201	Mine Waste Management	W2	Basic geotechnical, hydrological, and water management aspects of mine waste management. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 210.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MINE_V 396-101	MINE_V	396	101	Engineering Economics	W1	Discrete and continuous cash flow models, discounted cash flow analysis, effects of depreciation and taxes, economic analysis of projects, sensitivity and risk analysis, financing and cost of capital. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Second-year standing in Engineering.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
MINE_V 402-101	MINE_V	402	101	Mine Ventilation and Occupational Health and Safety	W1	Design and analysis for ventilation systems for mining. Topics such as ventilation design, ventilation surveys, thermodynamic aspects, psychrometry of air and air conditioning. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Fourth-year standing.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
MINE_V 402-L1A	MINE_V	402	L1A	Mine Ventilation and Occupational Health and Safety	W1	Design and analysis for ventilation systems for mining. Topics such as ventilation design, ventilation surveys, thermodynamic aspects, psychrometry of air and air conditioning. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Fourth-year standing.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
MINE_V 403-201	MINE_V	403	201	Rock Engineering Design	W2	The design of rock slopes and underground openings with respect to stress, structure and the rock mass. Stabilization and monitoring of rock movement. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: MINE 303.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.

MINE_V 404-201	MINE_V	404	201	Strategic Issues in Mining	W2	Strategic issues in an organization; types of organizations; personnel evaluations and job rating systems; impact of manpower planning on decision-making; union negotiations; public relations; dealing with the media; corporate responsibilities to society and employees. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Third-year standing.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
MINE_V 406-201	MINE_V	406	201	Mine Project Valuation and Risk Assessment	W2	Mineral economics and finance. Analytical tools and techniques used in the valuation of mining companies and the financial analysis and risk assessment methods. [2-2-0] Prerequisite: MINE 396.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
MINE_V 420-201	MINE_V	420	201	Applied Geostatistics	W2	Geostatistical analysis and simulation of spatiotemporal phenomena in natural and engineered systems with applications to mining problems. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: STAT 251.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MINE_V 420-L2A	MINE_V	420	L2A	Applied Geostatistics	W2	Geostatistical analysis and simulation of spatiotemporal phenomena in natural and engineered systems with applications to mining problems. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: STAT 251.	In Person Learning	Arranged	Arranged
MINE_V 432-101	MINE_V	432	101	Mineral Process Control	W1	Automatic control theory, PID control, Laplace and z-transforms, loop tuning, frequency response, stability analysis, control strategies in flotation, comminution, dewatering, reagent and bin/sump levels, automated load-haul-dump and drilling equipment, instrumentation and soft sensors. This course is not eligible for Credit/D/Fail grading. [2-4-0]	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MINE_V 432-L1A	MINE_V	432	L1A	Mineral Process Control	W1	Automatic control theory, PID control, Laplace and z-transforms, loop tuning, frequency response, stability analysis, control strategies in flotation, comminution, dewatering, reagent and bin/sump levels, automated load-haul-dump and drilling equipment, instrumentation and soft sensors. This course is not eligible for Credit/D/Fail grading. [2-4-0]	In Person Learning	Wed	10:00 a.m. - 11:30 a.m.
MINE_V 434-201	MINE_V	434	201	Processing Precious Metal Ores	W2	Process alternatives and mineralogical considerations; physical and chemical recovery technologies; environmental protection; flowsheet studies. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: MINE 331.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MINE_V 434-L2A	MINE_V	434	L2A	Processing Precious Metal Ores	W2	Process alternatives and mineralogical considerations; physical and chemical recovery technologies; environmental protection; flowsheet studies. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: MINE 331.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
MINE_V 444-201	MINE_V	444	201	Urban Mining: Recovering Value From E-waste	W2	Technological and social issues related to the recovery of value from e-waste seen through the eyes of engineers, social scientists and economists. Recovery of valuable minerals in the context of circular economy to provide sustainable solutions for our planet. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MINE_V 444-L1A	MINE_V	444	L1A	Urban Mining: Recovering Value From E-waste	W2	Technological and social issues related to the recovery of value from e-waste seen through the eyes of engineers, social scientists and economists. Recovery of valuable minerals in the context of circular economy to provide sustainable solutions for our planet. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MINE_V 447-101	MINE_V	447	101	Dewatering of Fine Tailings	W1	Interparticle forces; DLVO theory of colloid stability; dispersion, coagulation, and flocculation phenomena; settling; thickening and consolidation processes; polymers in mineral processing; measurement techniques in tailings treatment; thickeners and principles of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
MINE_V 447-L1A	MINE_V	447	L1A	Dewatering of Fine Tailings	W1	Interparticle forces; DLVO theory of colloid stability; dispersion, coagulation, and flocculation phenomena; settling; thickening and consolidation processes; polymers in mineral processing; measurement techniques in tailings treatment; thickeners and principles of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
MINE_V 455-201	MINE_V	455	201	Mine Water Management	W2	Mine water management covering integrated water resource management, water balances, sources, water use optimization, water quality and treatment and long-term stewardship. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MINE_V 465-101	MINE_V	465	101	Materials Handling	W1	Knowledge and understanding of equipment used in mining operations, including diesel, electro-mechanical, hydraulic and pneumatic equipment as well as conveyors, load-haul-dump trucks and pumps. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
MINE_V 465-201	MINE_V	465	201	Materials Handling	W2	Knowledge and understanding of equipment used in mining operations, including diesel, electro-mechanical, hydraulic and pneumatic equipment as well as conveyors, load-haul-dump trucks and pumps. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
MINE_V 470-101	MINE_V	470	101	Indigenous Peoples and Mining in Canada	W1	Historical context of Indigenous peoples of Canada interactions with the development of mineral resources. Current best practices and systems supporting effective engagement and involvement of Indigenous peoples in the development of mines and mineral resources. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Third-year standing.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
MINE_V 470-201	MINE_V	470	201	Indigenous Peoples and Mining in Canada	W2	Historical context of Indigenous peoples of Canada interactions with the development of mineral resources. Current best practices and systems supporting effective engagement and involvement of Indigenous peoples in the development of mines and mineral resources. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Third-year standing.	In Person Learning	Arranged	Arranged
MINE_V 485-201	MINE_V	485	201	Cave Mining Systems: Design and Planning	W2	Designs, planning, and leading practices are applied to underground mining systems reliant on induced and controlled rock mass caving. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: MINE 303.	In Person Learning	Wed	8:00 a.m. - 11:00 a.m.
MINE_V 486-201	MINE_V	486	201	Mining and The Environment	W2	Environmental topics of importance to engineers practicing within the mining, metallurgical and related industries including technical practices, regulatory and public issues. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MINE_V 491-001	MINE_V	491	001	Mine and Plant Engineering Design Feasibility Study	W1-2	Mining Engineering design project from scope definition to final design and project feasibility. Based on a problem from industry and/or research. This course is not eligible for Credit/D/Fail grading. [2-2-0; 2-2-0] Prerequisite: All of MINE 302, MINE 303, MINE 310, MINE 331, MINE 333, MINE 350, MINE 396.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.

MINE_V 491-DNU_001	MINE_V	491		DNU_001	Mine and Plant Engineering Design Feasibility Study	W1	Mining Engineering design project from scope definition to final design and project feasibility. Based on a problem from industry and/or research. This course is not eligible for Credit/D/Fail grading. [2-2-0; 2-2-0] Prerequisite: All of MINE 302, MINE 303, MINE 310, MINE 331, MINE 333, MINE 350, MINE 396.	In Person Learning	Arranged	Arranged
MINE_V 497-W_101	MINE_V	497	W	W_101	Directed Studies	W1	Requires approval of the department head. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 501-A_001	MINE_V	501	A	A_001	Topics for Engineers in the Mining Industry	W1-2	Leading practices and technologies employed in the Canadian Mining Industry. Topics include: mining, mineral processing, mine finance and mining and the environment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 501-A_101	MINE_V	501	A	A_101	Topics for Engineers in the Mining Industry	W1	Leading practices and technologies employed in the Canadian Mining Industry. Topics include: mining, mineral processing, mine finance and mining and the environment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 501-B_001	MINE_V	501	B	B_001	Topics for Engineers in the Mining Industry	W1-2	Leading practices and technologies employed in the Canadian Mining Industry. Topics include: mining, mineral processing, mine finance and mining and the environment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 501-B_101	MINE_V	501	B	B_101	Topics for Engineers in the Mining Industry	W1	Leading practices and technologies employed in the Canadian Mining Industry. Topics include: mining, mineral processing, mine finance and mining and the environment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 501-B_201	MINE_V	501	B	B_201	Topics for Engineers in the Mining Industry	W2	Leading practices and technologies employed in the Canadian Mining Industry. Topics include: mining, mineral processing, mine finance and mining and the environment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 505-201	MINE_V	505		201	Advanced Topics in Rock Engineering	W2	Rock mass properties and numerical modelling applied to rock engineering design with particular emphasis on applications in rock slopes and tunneling. Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
MINE_V 506-201	MINE_V	506		201	Mining Methods	W2	A more advanced study of some aspects of mining methods. Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
MINE_V 507-201	MINE_V	507		201	Block Caving Systems	W2	Mass mining (caving) methods, their design and operation, the value proposition and the key value drivers. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:00 a.m. - 11:00 a.m.
MINE_V 508-201	MINE_V	508		201	Integrated Mining and Processing Systems	W2	Methods and systems for integrated mining and processing, conceptual model development, simulation, economic and technical evaluation. Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	10:30 a.m. - 1:30 p.m.
MINE_V 509-101	MINE_V	509		101	Mine Ventilation	W1	Mine air conditioning, ventilation network analysis, radioactivity in mining, case studies in mine ventilation and control of dust, fumes and diesel exhausts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
MINE_V 509-L1A	MINE_V	509		L1A	Mine Ventilation	W1	Mine air conditioning, ventilation network analysis, radioactivity in mining, case studies in mine ventilation and control of dust, fumes and diesel exhausts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
MINE_V 515-201	MINE_V	515		201	Future of Mining	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 3:30 p.m.
MINE_V 520-101	MINE_V	520		101	Advanced Coal Preparation	W1	Thermal and metallurgical coals. Desulphurization Theory of coal beneficiation. Dense media separation. Coal surface properties and their effect on fine coal processing by flotation and oil agglomeration; coal/water/slurries. Plant performance testing and instrumentation. Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
MINE_V 520-L1A	MINE_V	520		L1A	Advanced Coal Preparation	W1	Thermal and metallurgical coals. Desulphurization Theory of coal beneficiation. Dense media separation. Coal surface properties and their effect on fine coal processing by flotation and oil agglomeration; coal/water/slurries. Plant performance testing and instrumentation. Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
MINE_V 521-201	MINE_V	521		201	Advanced Flotation Technology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	8:00 a.m. - 9:00 a.m.
MINE_V 524-201	MINE_V	524		201	Processing of Precious Metal Ores	W2	Advances in science and technology for recovering gold, silver, and platinum group elements. Credit will be granted for only one of MINE 524 or MINE 577. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MINE_V 524-L2A	MINE_V	524		L2A	Processing of Precious Metal Ores	W2	Advances in science and technology for recovering gold, silver, and platinum group elements. Credit will be granted for only one of MINE 524 or MINE 577. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
MINE_V 545-101	MINE_V	545		101	New Perspectives on Mine Closure	W1		In Person Learning	Arranged	Arranged
MINE_V 547-101	MINE_V	547		101	Industrial Expert Systems	W1	The use of artificial intelligence to solve complex problems in industry. Topics include knowledge acquisition, knowledge representation, knowledge accumulation, and conflict resolution. Credit will be granted for only one of MINE 547 or MINE 578. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	8:30 a.m. - 9:30 a.m.
MINE_V 547-L1A	MINE_V	547		L1A	Industrial Expert Systems	W1	The use of artificial intelligence to solve complex problems in industry. Topics include knowledge acquisition, knowledge representation, knowledge accumulation, and conflict resolution. Credit will be granted for only one of MINE 547 or MINE 578. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.

MINE_V 552-101	MINE_V	552	101	Mining Geostatistics	W1	Basic geostatistical concepts. Applications of geostatistical techniques and stochastic simulation to orebody modelling and grade control. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MINE_V 552-201	MINE_V	552	201	Mining Geostatistics	W2	Basic geostatistical concepts. Applications of geostatistical techniques and stochastic simulation to orebody modelling and grade control. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
MINE_V 552-L2A	MINE_V	552	L2A	Mining Geostatistics	W2	Basic geostatistical concepts. Applications of geostatistical techniques and stochastic simulation to orebody modelling and grade control. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MINE_V 554-201	MINE_V	554	201	Mine Economics and Finance	W2	Mine valuation using discounted cash flow analysis and option pricing methods. Sources of mine finance and requirements. Sensitivity and risk assessment. Introduction to metals marketing, hedging and risk management. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.	
MINE_V 555-101	MINE_V	555	101	Mining and Society	W1	Discussion of social, political and technical topics concerning mining-related activities. Credit will be granted for only one of MINE 555 or MINE 583. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MINE_V 555-201	MINE_V	555	201	Mining and Society	W2	Discussion of social, political and technical topics concerning mining-related activities. Credit will be granted for only one of MINE 555 or MINE 583. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MINE_V 559-101	MINE_V	559	101	Indigenous Peoples and Mining in Canada	W1	Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.	
MINE_V 559-201	MINE_V	559	201	Indigenous Peoples and Mining in Canada	W2	Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MINE_V 581-101	MINE_V	581	101	Safety of Tailings Storage Facilities	W1	Safety evaluation of tailings storage facilities as a system, including tailings transport and containment structures. Consequence classifications. Credible failure modes. Breach analyses. Risk management and reporting. Emergency planning. Critical controls. Change management. Governance frameworks. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.	
MINE_V 585-201	MINE_V	585	201	Risk Management of Tailings Storage Facilities	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: MINE 581.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
MINE_V 586-001	MINE_V	586	001	Advanced Mine Waste Management	W1-2	Advanced geotechnical, hydrological, and water management aspects of mine waste management. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MINE_V 586-201	MINE_V	586	201	Advanced Mine Waste Management	W1-2	Advanced geotechnical, hydrological, and water management aspects of mine waste management. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
MINE_V 587-001	MINE_V	587	001	Advanced Mine Site Management	W1-2	Advanced mine site management topics including site and corporate governance and responsibility for mine waste facilities, specifically tailings; the role and responsibilities of the Engineer of Record; geochemistry of mine waste and mine closure realities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
MINE_V 587-201	MINE_V	587	201	Advanced Mine Site Management	W1-2	Advanced mine site management topics including site and corporate governance and responsibility for mine waste facilities, specifically tailings; the role and responsibilities of the Engineer of Record; geochemistry of mine waste and mine closure realities. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
MINE_V 588-201	MINE_V	588	201	Risk Assessment for Mine Waste Management	W2	Risk assessment and management topics including risk assessment methodologies, risk management, and decision-making under risk. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
MINE_V 589-201	MINE_V	589	201	Mine Waste Management Case Studies	W2	Case study analysis including design, construction, operations and closure of mine waste facilities. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
MINE_V 590-C_101	MINE_V	590	C	C_101	Special Advanced Topics	W1	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	10:00 a.m. - 11:30 a.m.
MINE_V 590-C_L1A	MINE_V	590	C	C_L1A	Special Advanced Topics	W1	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
MINE_V 590-E_201	MINE_V	590	E	E_201	Special Advanced Topics	W2	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
MINE_V 590-F_101	MINE_V	590	F	F_101	Special Advanced Topics	W1	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Fri	8:00 a.m. - 9:30 a.m.
MINE_V 590-M_201	MINE_V	590	M	M_201	Special Advanced Topics	W2	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.

MINE_V 590-P_201	MINE_V	590	P	P_201	Special Advanced Topics	W2	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MINE_V 590-Q_101	MINE_V	590	Q	Q_101	Special Advanced Topics	W1	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MINE_V 590-Q_201	MINE_V	590	Q	Q_201	Special Advanced Topics	W2	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
MINE_V 590-W_201	MINE_V	590	W	W_201	Special Advanced Topics	W2	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
MINE_V 590-X_201	MINE_V	590	X	X_201	Special Advanced Topics	W2	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MINE_V 590-Y_101	MINE_V	590	Y	Y_101	Special Advanced Topics	W1	A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.
MINE_V 591-101	MINE_V	591		101	Communication Skills and Workplace Readiness	W1	Preparation for mining and mineral processing engineering internships. The course includes workshops on the following topics: developing a synopsis of qualifications, written communication and interviewing skills for the engineering professional. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 597-001	MINE_V	597		001	Engineering Project	W1-2	A project involving laboratory, pilot plant or field work is to be completed in close collaboration with an academic advisor. For M.Eng. students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 597-101	MINE_V	597		101	Engineering Project	W1	A project involving laboratory, pilot plant or field work is to be completed in close collaboration with an academic advisor. For M.Eng. students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 597-201	MINE_V	597		201	Engineering Project	W2	A project involving laboratory, pilot plant or field work is to be completed in close collaboration with an academic advisor. For M.Eng. students only. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 598-001	MINE_V	598		001	Seminar	W1-2	Topics in mining, mineral processing and the environment for M.A.Sc. and M.Eng. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MINE_V 598-101	MINE_V	598		101	Seminar	W1	Topics in mining, mineral processing and the environment for M.A.Sc. and M.Eng. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 598-201	MINE_V	598		201	Seminar	W2	Topics in mining, mineral processing and the environment for M.A.Sc. and M.Eng. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MINE_V 598-DNU_001	MINE_V	598		DNU_001	Seminar	W2	Topics in mining, mineral processing and the environment for M.A.Sc. and M.Eng. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 599-C_001	MINE_V	599	C	C_001	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MINE_V 599-C_101	MINE_V	599	C	C_101	M.A.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MINE_V 599-C_201	MINE_V	599	C	C_201	M.A.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MINE_V 698-001	MINE_V	698		001	Seminar	W1-2	Topics in mining and mineral processing for Ph.D. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MINE_V 698-101	MINE_V	698		101	Seminar	W1	Topics in mining and mineral processing for Ph.D. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MINE_V 698-201	MINE_V	698		201	Seminar	W2	Topics in mining and mineral processing for Ph.D. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MINE_V 699-001	MINE_V	699		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged

MINE_V 699-101	MINE_V	699	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
MINE_V 699-201	MINE_V	699	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged	
MRNE_V 400-A_611	MRNE_V	400	A	A_611	Directed Studies	W1	A research project approved by the supervisor in the field of interest of the student designed to take advantage of the opportunities offered by the Bamfield Marine Sciences Centre. Note: the supervisor may be teaching at the Marine Centre; or a member of faculty of WCUMSS whether at the Marine Centre as a research investigator or as one of the members of WCUMSS.	In Person Learning	Arranged	Arranged
MRNE_V 400-B_610	MRNE_V	400	B	B_610	Directed Studies	W1	A research project approved by the supervisor in the field of interest of the student designed to take advantage of the opportunities offered by the Bamfield Marine Sciences Centre. Note: the supervisor may be teaching at the Marine Centre; or a member of faculty of WCUMSS whether at the Marine Centre as a research investigator or as one of the members of WCUMSS.	In Person Learning	Arranged	Arranged
MRNE_V 415-610	MRNE_V	415		610	Structure and Function in Marine Animals	W1	Principles of classification, evolution, morphology, biomechanics, physiology and biochemistry will be illustrated in representatives from a variety of animal phyla. [3-3-0] Prerequisite: Completion of second year in a biology program.	In Person Learning	Arranged	Arranged
MRNE_V 425-610	MRNE_V	425		610	Ecological Adaptations of Seaweeds	W1	Morphological, physiological, genetic and reproductive adaptations of seaweeds to their environments. [3-3-0] Prerequisite: Completion of second year in a biology program.	In Person Learning	Arranged	Arranged
MRNE_V 437-610	MRNE_V	437		610	Population and Community Ecology of Marine Organisms	W1	Emphasis on interactions among organisms and between organisms and their physicochemical environment, and on biological diversity. [3-3-0] Prerequisite: Completion of second year in a biology program.	In Person Learning	Arranged	Arranged
MRNE_V 480-610	MRNE_V	480		610	Seminars and Papers in Marine Science	W1	Instruction in the critical analysis of published research papers and of oral seminars. [2-2-0] Prerequisite: Completion of second year in a biology program.	In Person Learning	Arranged	Arranged
MTRL_V 201-201	MTRL_V	201	201	Technical Communication	W2	Written and oral communication in business correspondence, engineering design methods, report preparation, and oral presentations of technical material. Restricted to students in second year of the Materials Engineering Program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 150. Corequisite: MTRL 280. Equivalency: APSC201	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.	
MTRL_V 250-101	MTRL_V	250	101	Thermodynamics of Materials I	W1	Heat and mass balances applied to materials engineering; thermodynamic principles applied to materials processing: heat of reaction, free energy, activity, phase equilibrium, reactions involving gases, Ellingham diagrams. [3-0-2]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
MTRL_V 250-T1A	MTRL_V	250	T1A	Thermodynamics of Materials I	W1	Heat and mass balances applied to materials engineering; thermodynamic principles applied to materials processing: heat of reaction, free energy, activity, phase equilibrium, reactions involving gases, Ellingham diagrams. [3-0-2]	In Person Learning	Tue	2:30 p.m. - 4:30 p.m.	
MTRL_V 251-201	MTRL_V	251	201	Thermodynamics of Materials II	W2	Behaviour of solutions, phase diagrams, electrochemistry, chemical potential and free energy diagrams applied to materials processing and thermodynamic modelling. [3-0-2] Prerequisite: MTRL 250.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.	
MTRL_V 251-TA2	MTRL_V	251	TA2	Thermodynamics of Materials II	W2	Behaviour of solutions, phase diagrams, electrochemistry, chemical potential and free energy diagrams applied to materials processing and thermodynamic modelling. [3-0-2] Prerequisite: MTRL 250.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.	
MTRL_V 263-201	MTRL_V	263	201	Transport Phenomena I - Fluid Mechanics	W2	Fluid statics; fluid mechanics; laminar and turbulent flow; equations of continuity and motion; boundary layers; flow in conduits and packed and fluidized beds; flow measurements. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Wed Fri	10:00 a.m. - 11:00 a.m.	
MTRL_V 263-L2A	MTRL_V	263	L2A	Transport Phenomena I - Fluid Mechanics	W2	Fluid statics; fluid mechanics; laminar and turbulent flow; equations of continuity and motion; boundary layers; flow in conduits and packed and fluidized beds; flow measurements. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.	
MTRL_V 264-201	MTRL_V	264	201	Transport Phenomena II - Heat Transport	W2	Conduction, forced and natural convection, and radiation. Heat transfer with fluid flow, applications of heat exchange, and solidification of castings. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.	
MTRL_V 264-T2A	MTRL_V	264	T2A	Transport Phenomena II - Heat Transport	W2	Conduction, forced and natural convection, and radiation. Heat transfer with fluid flow, applications of heat exchange, and solidification of castings. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.	
MTRL_V 280-201	MTRL_V	280	201	Materials in Design	W2	The process of materials selection for different design criteria; the importance of shape and processing variables; the use of computer software in the selection process. This course is not eligible for Credit/D/Fail grading. [2-0-3]	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.	
MTRL_V 280-T2A	MTRL_V	280	T2A	Materials in Design	W2	The process of materials selection for different design criteria; the importance of shape and processing variables; the use of computer software in the selection process. This course is not eligible for Credit/D/Fail grading. [2-0-3]	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
MTRL_V 320-101	MTRL_V	320	101	Management of Engineering Design	W1	Fundamental communication and inter- personal skills, as well as operational processes, that engineers require to effectively work in design teams. Concepts and best practices around project management tools and techniques, team dynamics, planning, and organization. [1-0-2]	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.	
MTRL_V 320-T1A	MTRL_V	320	T1A	Management of Engineering Design	W1	Fundamental communication and inter- personal skills, as well as operational processes, that engineers require to effectively work in design teams. Concepts and best practices around project management tools and techniques, team dynamics, planning, and organization. [1-0-2] Manufacturing processes from a materials perspective: metal casting, heat treating processes, forming processes, machining, and joining. Role of manufacturing in microstructure and material properties development and on component performance. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.	
MTRL_V 340-201	MTRL_V	340	201	Manufacturing in Materials Engineering	W2	Manufacturing processes from a materials perspective: metal casting, heat treating processes, forming processes, machining, and joining. Role of manufacturing in microstructure and material properties development and on component performance. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.	

MTRL_V 358-101	MTRL_V	358	101	Hydrometallurgy I	W1	Aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
MTRL_V 358-T1A	MTRL_V	358	T1A	Hydrometallurgy I	W1	Aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
MTRL_V 359-L1A	MTRL_V	359	L1A	Hydrometallurgy I Laboratory	W1	Laboratory exercises on aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: MTRL 358.	In Person Learning	Wed	12:00 p.m. - 3:00 p.m.
MTRL_V 359-L1B	MTRL_V	359	L1B	Hydrometallurgy I Laboratory	W1	Laboratory exercises on aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: MTRL 358.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
MTRL_V 359-L1C	MTRL_V	359	L1C	Hydrometallurgy I Laboratory	W1	Laboratory exercises on aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: MTRL 358.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
MTRL_V 361-101	MTRL_V	361	101	Modelling of Materials Processes	W1	Mathematical and physical modelling of processes employed in the production of materials. The application of models to analyze, design and improve materials production. This course is not eligible for Credit/D/Fail grading. [3-0-2]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MTRL_V 361-T1A	MTRL_V	361	T1A	Modelling of Materials Processes	W1	Mathematical and physical modelling of processes employed in the production of materials. The application of models to analyze, design and improve materials production. This course is not eligible for Credit/D/Fail grading. [3-0-2]	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
MTRL_V 363-101	MTRL_V	363	101	Transport Phenomena III - Mass Transport	W1	Mass transfer fundamentals, gas interdiffusivity, Sievert's law, Fick's laws, solid-state diffusion, steady and non-steady state diffusion, mass transfer in quiescence fluids. The application examples are related to metallurgical processes, green technologies, and the semiconductor industry. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MTRL_V 363-T1A	MTRL_V	363	T1A	Transport Phenomena III - Mass Transport	W1	Mass transfer fundamentals, gas interdiffusivity, Sievert's law, Fick's laws, solid-state diffusion, steady and non-steady state diffusion, mass transfer in quiescence fluids. The application examples are related to metallurgical processes, green technologies, and the semiconductor industry. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
MTRL_V 365-201	MTRL_V	365	201	Mechanical Behaviour of Materials	W2	Polycrystalline and single crystal deformation; dislocation theory; strengthening mechanisms; fracture mechanics; fatigue; high temperature deformation mechanisms. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MTRL_V 378-201	MTRL_V	378	201	Phase Transformations	W2	Solidification and solid state transformations; nucleation and growth processes; segregation and structure in castings; phase changes in steel; transformation diagrams; diffusion equations. [3-0-2*]	In Person Learning	Arranged	Arranged
MTRL_V 378-T2A	MTRL_V	378	T2A	Phase Transformations	W2	Solidification and solid state transformations; nucleation and growth processes; segregation and structure in castings; phase changes in steel; transformation diagrams; diffusion equations. [3-0-2*]	In Person Learning	Arranged	Arranged
MTRL_V 381-201	MTRL_V	381	201	Structure and Properties Laboratory	W2	Structure and properties of ferrous and non-ferrous metals; heat treatment; hardenability; metallography; age hardening. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: All of MTRL 365, MTRL 378.	In Person Learning	Thu (Alternate weeks)	2:00 p.m. - 5:00 p.m.
MTRL_V 381-202	MTRL_V	381	202	Structure and Properties Laboratory	W2	Structure and properties of ferrous and non-ferrous metals; heat treatment; hardenability; metallography; age hardening. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: All of MTRL 365, MTRL 378.	In Person Learning	Thu (Alternate weeks)	2:00 p.m. - 5:00 p.m.
MTRL_V 381-203	MTRL_V	381	203	Structure and Properties Laboratory	W2	Structure and properties of ferrous and non-ferrous metals; heat treatment; hardenability; metallography; age hardening. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: All of MTRL 365, MTRL 378.	In Person Learning	Thu (Alternate weeks)	9:00 a.m. - 12:00 p.m.
MTRL_V 381-204	MTRL_V	381	204	Structure and Properties Laboratory	W2	Structure and properties of ferrous and non-ferrous metals; heat treatment; hardenability; metallography; age hardening. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: All of MTRL 365, MTRL 378.	In Person Learning	Thu (Alternate weeks)	9:00 a.m. - 12:00 p.m.
MTRL_V 382-201	MTRL_V	382	201	Ceramics	W2	Fundamentals of engineering ceramics focusing on raw materials, forming, sintering and properties, characterization, and design with ceramics. This course is not eligible for Credit/D/Fail grading. [3-3*-0]	In Person Learning	Arranged	Arranged
MTRL_V 382-L2A	MTRL_V	382	L2A	Ceramics	W1-2	Fundamentals of engineering ceramics focusing on raw materials, forming, sintering and properties, characterization, and design with ceramics. This course is not eligible for Credit/D/Fail grading. [3-3*-0]	In Person Learning	Arranged	Arranged
MTRL_V 394-201	MTRL_V	394	201	Polymers	W2	The structure and properties of polymeric materials and reinforced polymers with emphasis on their engineering properties and applications. This course is not eligible for Credit/D/Fail grading. [3-0-2]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MTRL_V 394-T2A	MTRL_V	394	T2A	Polymers	W2	The structure and properties of polymeric materials and reinforced polymers with emphasis on their engineering properties and applications. This course is not eligible for Credit/D/Fail grading. [3-0-2]	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.
MTRL_V 424-201	MTRL_V	424	201	Aerospace Materials and Manufacturing	W2	Advanced materials and manufacturing in the framework of aerospace requirements and regulations, with a focus on processing of materials, including advanced metals and polymer composites, to produce aerospace structures and engine components. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
MTRL_V 451-101	MTRL_V	451	101	Microstructural Analysis Laboratory	W1	Basic principles and techniques of microstructural analysis with particular reference to engineered materials including x-ray, SEM microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [1-3*-2]	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
MTRL_V 451-L1A	MTRL_V	451	L1A	Microstructural Analysis Laboratory	W1	Basic principles and techniques of microstructural analysis with particular reference to engineered materials including x-ray, SEM microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [1-3*-2]	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.

MTRL_V 451-L1B	MTRL_V	451	L1B	Microstructural Analysis Laboratory	W1	Basic principles and techniques of microstructural analysis with particular reference to engineered materials including x-ray, SEM microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [1-3*2]	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
MTRL_V 455-101	MTRL_V	455	101	Economic Aspects of Materials Engineering	W1	Time value of money, cash flows, capital and operating cost estimation, financial decision making and relevant case studies. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Wed Fri	1:00 p.m. - 2:00 p.m.
MTRL_V 455-T1A	MTRL_V	455	T1A	Economic Aspects of Materials Engineering	W1	Time value of money, cash flows, capital and operating cost estimation, financial decision making and relevant case studies. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Fri	8:00 a.m. - 10:00 a.m.
MTRL_V 456-201	MTRL_V	456	201	Environmental Degradation of Materials	W2	Fundamental aspects of environmental degradation of metals (corrosion), ceramics, adn polymers, with an emphasis on aqueous environments. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MTRL_V 456-T2A	MTRL_V	456	T2A	Environmental Degradation of Materials	W2	Fundamental aspects of environmental degradation of metals (corrosion), ceramics, adn polymers, with an emphasis on aqueous environments. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
MTRL_V 458-201	MTRL_V	458	201	Hydrometallurgy II	W2	Leaching, purification, precipitation, regeneration; thermodynamics and kinetics of separation steps; electrochemical applications. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
MTRL_V 460-101	MTRL_V	460	101	Monitoring and Optimization of Materials Processing	W1	Measurement systems for materials processing and evaluation, methods of data collection and analysis in materials engineering, materials processing monitoring and control, design of experiments for materials processing and optimization. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
MTRL_V 460-T1A	MTRL_V	460	T1A	Monitoring and Optimization of Materials Processing	W1	Measurement systems for materials processing and evaluation, methods of data collection and analysis in materials engineering, materials processing monitoring and control, design of experiments for materials processing and optimization. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
MTRL_V 466-101	MTRL_V	466	101	Engineering Project I	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MTRL_V 466-201	MTRL_V	466	201	Engineering Project I	W2	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
MTRL_V 466-L1A	MTRL_V	466	L1A	Engineering Project I	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Arranged	Arranged
MTRL_V 466-L1B	MTRL_V	466	L1B	Engineering Project I	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
MTRL_V 466-L2B	MTRL_V	466	L2B	Engineering Project I	W2	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
MTRL_V 466-T1A	MTRL_V	466	T1A	Engineering Project I	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
MTRL_V 466-T2A	MTRL_V	466	T2A	Engineering Project I	W2	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.
MTRL_V 467-101	MTRL_V	467	101	Engineering Project II	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
MTRL_V 467-201	MTRL_V	467	201	Engineering Project II	W2	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
MTRL_V 467-L1A	MTRL_V	467	L1A	Engineering Project II	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Arranged	Arranged
MTRL_V 467-L1B	MTRL_V	467	L1B	Engineering Project II	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
MTRL_V 467-L2A	MTRL_V	467	L2A	Engineering Project II	W2	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Arranged	Arranged
MTRL_V 467-L2B	MTRL_V	467	L2B	Engineering Project II	W2	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Fri	5:00 p.m. - 7:00 p.m.
MTRL_V 467-T1A	MTRL_V	467	T1A	Engineering Project II	W1	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Arranged	Arranged
MTRL_V 467-T2A	MTRL_V	467	T2A	Engineering Project II	W2	Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]	In Person Learning	Tue	4:30 p.m. - 7:30 p.m.

MTRL_V 469-201	MTRL_V	469	201	Casting Technology	W2	Various casting technologies related to the automotive and aerospace sectors will be covered, including upstream liquid metal processing. [2-0-2]	In Person Learning	Arranged	Arranged
MTRL_V 469-T2A	MTRL_V	469	T2A	Casting Technology	W2	Various casting technologies related to the automotive and aerospace sectors will be covered, including upstream liquid metal processing. [2-0-2]	In Person Learning	Arranged	Arranged
MTRL_V 472-101	MTRL_V	472	101	Welding and Joining of Materials	W1	Case studies addressing temperature modelling in welding and joining, material selection for welds and joints, calculation of properties for welds and joints, mechanical analysis of joints, and design of welding and joining procedures. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
MTRL_V 472-L1A	MTRL_V	472	L1A	Welding and Joining of Materials	W1	Case studies addressing temperature modelling in welding and joining, material selection for welds and joints, calculation of properties for welds and joints, mechanical analysis of joints, and design of welding and joining procedures. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
MTRL_V 475-201	MTRL_V	475	201	Microstructure Engineering	W2	Follows the production of metallurgical products, focusing on process design models used to describe solidification, recrystallization, and precipitation. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
MTRL_V 475-T2A	MTRL_V	475	T2A	Microstructure Engineering	W2	Follows the production of metallurgical products, focusing on process design models used to describe solidification, recrystallization, and precipitation. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
MTRL_V 478-201	MTRL_V	478	201	Electronic Materials	W2	Semiconductor materials, MOSFET structure, operation and applications in digital circuits, fabrication techniques, basic mask and fabrication flow design and semiconductor fabrication process theories at an entry level. [3-0-0]	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
MTRL_V 484-201	MTRL_V	484	201	Materials for Aerostructures and Engines	W2	Engineering theory of aerospace structural material mix: metal alloys, ceramics, and polymer composites. Material requirements for weight-, damage tolerant-, cost efficient-design. Overview of material characterization, including fracture and fatigue. Statistical variability, material allowables, structural certification. [3-0-0]	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
MTRL_V 485-101	MTRL_V	485	101	Failure of Materials	W1	Failure by excess deformation, fracture, fatigue, and environmental effects. Failure theories and case studies of engineering failures. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
MTRL_V 485-T1A	MTRL_V	485	T1A	Failure of Materials	W1	Failure by excess deformation, fracture, fatigue, and environmental effects. Failure theories and case studies of engineering failures. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
MTRL_V 486-101	MTRL_V	486	101	Nondestructive Evaluation	W1	Principles of test methods; inspection techniques and equipment; quantitative flaw evaluation; reliability analysis. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Wed	3:00 p.m. - 5:00 p.m.
MTRL_V 486-T1A	MTRL_V	486	T1A	Nondestructive Evaluation	W1	Principles of test methods; inspection techniques and equipment; quantitative flaw evaluation; reliability analysis. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
MTRL_V 494-101	MTRL_V	494	101	Composite Materials	W1	Understanding the properties and the mechanical behaviour of composite materials with emphasis on analysis, design, and manufacturing. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MTRL_V 495-201	MTRL_V	495	201	Biomaterials	W2	Engineered materials in medical applications with an emphasis on material properties, functionality, design, and material response in the biological environment. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Wed Fri	1:00 p.m. - 2:00 p.m.
MTRL_V 495-T2A	MTRL_V	495	T2A	Biomaterials	W2	Engineered materials in medical applications with an emphasis on material properties, functionality, design, and material response in the biological environment. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
MTRL_V 496-201	MTRL_V	496	201	Materials Sustainability	W2	Concepts of life cycle analysis, circular economy and critical materials. Project-based introduction to key concepts, calculations, and design. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Wed Fri	9:00 a.m. - 10:00 a.m.
MTRL_V 496-T2A	MTRL_V	496	T2A	Materials Sustainability	W2	Concepts of life cycle analysis, circular economy and critical materials. Project-based introduction to key concepts, calculations, and design. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
MTRL_V 497-B_101	MTRL_V	497	B	B_101	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
MTRL_V 515-201	MTRL_V	515	201	Advanced Simulation and Modelling Tools for Materials Manufacturing	W2	Mathematical modelling of manufacturing processes; Computer Aided Engineering tools; application examples will be drawn from a range of manufacturing operations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
MTRL_V 559-201	MTRL_V	559	201	Advanced Hydrometallurgy	W2	Advanced thermochemical modelling of hydrometallurgical unit operations to include extraction, separation, and recovery of base metals. Application to flow-sheet analysis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
MTRL_V 564-201	MTRL_V	564	201	Hydrometallurgical Reactor Design and Analysis	W2	Batch leaching kinetics, leaching mechanisms; statistical methods for design of multiparticle continuous leaching reactors; coupled heat and mass balances, mixing phenomena, redox and precipitation reactions, complex mineralogical feeds; heap and dump leaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	1:00 p.m. - 2:30 p.m.
MTRL_V 570-101	MTRL_V	570	101	Deformation of Crystalline Materials	W1	Nature and properties of lattice imperfections; dislocation theory and its use to describe work hardening, creep, structure of grain boundaries and other phenomena. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
MTRL_V 578-201	MTRL_V	578	201	Microstructural Evolution of Deformed Materials	W2	Physical mechanisms of microstructure evolution; structure, energy and mobilities of grain boundaries, grain boundary segregation, precipitation, recovery, recrystallization, grain growth; microstructure engineering of steels. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.

MTRL_V 578-T2A	MTRL_V	578		T2A	Microstructural Evolution of Deformed Materials	W2	Physical mechanisms of microstructure evolution; structure, energy and mobilities of grain boundaries, grain boundary segregation, precipitation, recovery, recrystallization, grain growth; microstructure engineering of steels. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 11:00 a.m.
MTRL_V 579-201	MTRL_V	579		201	Physics of Microfabrication: Front End Processing	W2	Practical aspects, physical models, and simulations of Si-based nanofabrication processes such as oxidation, diffusion, ion implantation, chemical vapor deposition, etching, stress techniques. Semiconductor device physics basics will also be discussed. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
MTRL_V 592-E_201	MTRL_V	592	E	E_201	Advanced Topics in Materials Engineering	W2	May be arranged on approval of the department head. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:00 p.m. - 2:00 p.m.
MTRL_V 592-E_202	MTRL_V	592	E	E_202	Advanced Topics in Materials Engineering	W1	May be arranged on approval of the department head. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MTRL_V 593-B_102	MTRL_V	593	B	B_102	Directed Studies in Materials Engineering	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MTRL_V 593-B_103	MTRL_V	593	B	B_103	Directed Studies in Materials Engineering	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MTRL_V 593-B_107	MTRL_V	593	B	B_107	Directed Studies in Materials Engineering	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MTRL_V 593-B_108	MTRL_V	593	B	B_108	Directed Studies in Materials Engineering	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MTRL_V 593-F_203	MTRL_V	593	F	F_203	Directed Studies in Materials Engineering	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MTRL_V 593-F_210	MTRL_V	593	F	F_210	Directed Studies in Materials Engineering	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MTRL_V 593-F_211	MTRL_V	593	F	F_211	Directed Studies in Materials Engineering	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MTRL_V 594-201	MTRL_V	594		201	Advanced Composite Materials	W2	Processing and properties of advanced polymer based composite materials with emphasis on analysis, design, and manufacturing. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Tue Thu	8:00 a.m. - 9:00 a.m.
MTRL_V 594-T2A	MTRL_V	594		T2A	Advanced Composite Materials	W2	Processing and properties of advanced polymer based composite materials with emphasis on analysis, design, and manufacturing. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
MTRL_V 595-201	MTRL_V	595		201	Advanced Biomaterials	W2	Formation and structure-function relations of biological materials, the interaction of tissue-synthetic biomaterials, advanced biomaterials design, biomimetic processing, and current progress in drug delivery systems and biomedical devices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	1:00 p.m. - 2:00 p.m.
MTRL_V 595-T2A	MTRL_V	595		T2A	Advanced Biomaterials	W2	Formation and structure-function relations of biological materials, the interaction of tissue-synthetic biomaterials, advanced biomaterials design, biomimetic processing, and current progress in drug delivery systems and biomedical devices. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
MTRL_V 596-001	MTRL_V	596		001	M.Sc. Thesis	W1-2	For M.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MTRL_V 596-101	MTRL_V	596		101	M.Sc. Thesis	W1	For M.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MTRL_V 596-201	MTRL_V	596		201	M.Sc. Thesis	W2	For M.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MTRL_V 598-101	MTRL_V	598		101	Seminar	W1	Presentation and discussion of current topics in metals and materials research. A required course for graduate students in metals and materials which carries no academic credit.	In Person Learning	Arranged	Arranged
MTRL_V 598-201	MTRL_V	598		201	Seminar	W2	Presentation and discussion of current topics in metals and materials research. A required course for graduate students in metals and materials which carries no academic credit.	In Person Learning	Arranged	Arranged
MTRL_V 599-001	MTRL_V	599		001	M.A.Sc. Thesis	W1-2	For M.A.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MTRL_V 599-101	MTRL_V	599		101	M.A.Sc. Thesis	W1	For M.A.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MTRL_V 599-201	MTRL_V	599		201	M.A.Sc. Thesis	W2	For M.A.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

MTRL_V 699-001	MTRL_V	699	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
MTRL_V 699-101	MTRL_V	699	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
MTRL_V 699-201	MTRL_V	699	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
MUSC_V 100-001	MUSC_V	100	001	Principles of Musical Form	W1	Fundamental materials and processes of music - rhythmic, melodic, textural and harmonic - and how they create small-scale structures in a variety of styles. Compositional and analytical applications.	In Person Learning	Tue Thu	8:30 a.m. - 9:30 a.m.
MUSC_V 100-002	MUSC_V	100	002	Principles of Musical Form	W1	Fundamental materials and processes of music - rhythmic, melodic, textural and harmonic - and how they create small-scale structures in a variety of styles. Compositional and analytical applications.	In Person Learning	Tue Thu	3:00 p.m. - 4:00 p.m.
MUSC_V 100-D01	MUSC_V	100	D01	Principles of Musical Form	W1	Fundamental materials and processes of music - rhythmic, melodic, textural and harmonic - and how they create small-scale structures in a variety of styles. Compositional and analytical applications.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
MUSC_V 100-D02	MUSC_V	100	D02	Principles of Musical Form	W1	Fundamental materials and processes of music - rhythmic, melodic, textural and harmonic - and how they create small-scale structures in a variety of styles. Compositional and analytical applications.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
MUSC_V 100-D03	MUSC_V	100	D03	Principles of Musical Form	W1	Fundamental materials and processes of music - rhythmic, melodic, textural and harmonic - and how they create small-scale structures in a variety of styles. Compositional and analytical applications.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 100-D04	MUSC_V	100	D04	Principles of Musical Form	W1	Fundamental materials and processes of music - rhythmic, melodic, textural and harmonic - and how they create small-scale structures in a variety of styles. Compositional and analytical applications.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
MUSC_V 100-D05	MUSC_V	100	D05	Principles of Musical Form	W1	Fundamental materials and processes of music - rhythmic, melodic, textural and harmonic - and how they create small-scale structures in a variety of styles. Compositional and analytical applications.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MUSC_V 101-001	MUSC_V	101	001	Diatonic Harmony and Voice Leading	W1-2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MUSC_V 101-002	MUSC_V	101	002	Diatonic Harmony and Voice Leading	W2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Tue Thu	8:30 a.m. - 9:30 a.m.
MUSC_V 101-D01	MUSC_V	101	D01	Diatonic Harmony and Voice Leading	W1-2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 101-D02	MUSC_V	101	D02	Diatonic Harmony and Voice Leading	W1-2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MUSC_V 101-D03	MUSC_V	101	D03	Diatonic Harmony and Voice Leading	W1-2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 101-D04	MUSC_V	101	D04	Diatonic Harmony and Voice Leading	W2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 101-D05	MUSC_V	101	D05	Diatonic Harmony and Voice Leading	W2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MUSC_V 101-D06	MUSC_V	101	D06	Diatonic Harmony and Voice Leading	W2	Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises. Prerequisite: One of MUSC 100, MUSC 110.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 103-001	MUSC_V	103	001	Introduction to the Theory of Music	W1	Concepts of rhythm, pitch, timbre, and texture. Notation and aural recognition of rhythmic and pitch patterns. Basic principles of melody and form. This course is not applicable to the B.Mus.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MUSC_V 103-99A	MUSC_V	103	99A	Introduction to the Theory of Music	W1	Concepts of rhythm, pitch, timbre, and texture. Notation and aural recognition of rhythmic and pitch patterns. Basic principles of melody and form. This course is not applicable to the B.Mus.	In Person Learning	Arranged	Arranged
MUSC_V 103-99C	MUSC_V	103	99C	Introduction to the Theory of Music	W1-2	Concepts of rhythm, pitch, timbre, and texture. Notation and aural recognition of rhythmic and pitch patterns. Basic principles of melody and form. This course is not applicable to the B.Mus.	In Person Learning	Arranged	Arranged
MUSC_V 105-110	MUSC_V	105	110	Aural Skills I	W1	Sight singing; melodic and harmonic dictation; rhythm production; error detection; tuning; perception of harmony, form, and tonality; improvisation in set idioms. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MUSC_V 105-120	MUSC_V	105	120	Aural Skills I	W1	Sight singing; melodic and harmonic dictation; rhythm production; error detection; tuning; perception of harmony, form, and tonality; improvisation in set idioms. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.

MUSC_V 105-121	MUSC_V	105		121	Aural Skills I		W1	Sight singing; melodic and harmonic dictation; rhythm production; error detection; tuning; perception of harmony, form, and tonality; improvisation in set idioms. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MUSC_V 105-130	MUSC_V	105		130	Aural Skills I		W1	Sight singing; melodic and harmonic dictation; rhythm production; error detection; tuning; perception of harmony, form, and tonality; improvisation in set idioms. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 106-210	MUSC_V	106		210	Aural Skills II		W2	Continuation of MUSC 105. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 105, or (b) pass the MUSC 105 Challenge Test. Students may register for MUSC 106 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
MUSC_V 106-220	MUSC_V	106		220	Aural Skills II		W2	Continuation of MUSC 105. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 105, or (b) pass the MUSC 105 Challenge Test. Students may register for MUSC 106 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MUSC_V 106-221	MUSC_V	106		221	Aural Skills II		W2	Continuation of MUSC 105. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 105, or (b) pass the MUSC 105 Challenge Test. Students may register for MUSC 106 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MUSC_V 106-230	MUSC_V	106		230	Aural Skills II		W2	Continuation of MUSC 105. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 105, or (b) pass the MUSC 105 Challenge Test. Students may register for MUSC 106 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 107-C_001	MUSC_V	107	C	C_001	Composition I		W1-2	An introduction to musical composition.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
MUSC_V 107-C_002	MUSC_V	107	C	C_002	Composition I		W1-2	An introduction to musical composition.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
MUSC_V 108-001	MUSC_V	108		001	Introduction to Contemporary Art Music		W1-2	Contemporary music repertoire, emphasizing music from the past fifty years. Required of undergraduate Composition majors; open to other Bachelor of Music students by permission of instructor. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:30 p.m. - 4:00 p.m.
MUSC_V 112-001	MUSC_V	112		001	Class Brasses and Percussion		W1-2	Group instruction in music performance. Restricted to B.Mus. students.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
MUSC_V 119-001	MUSC_V	119		001	Introduction to Music Technology		W2	Practical and theoretical training in technologies that support current artistic and academic practice, such as MIDI, podcasts/videocasts, websites, social media, and software for score notation, music education, and basic audio/video editing. [2-0-1]	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
MUSC_V 119-002	MUSC_V	119		002	Introduction to Music Technology		W2	Practical and theoretical training in technologies that support current artistic and academic practice, such as MIDI, podcasts/videocasts, websites, social media, and software for score notation, music education, and basic audio/video editing. [2-0-1]	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
MUSC_V 119-L01	MUSC_V	119		L01	Introduction to Music Technology		W2	Practical and theoretical training in technologies that support current artistic and academic practice, such as MIDI, podcasts/videocasts, websites, social media, and software for score notation, music education, and basic audio/video editing. [2-0-1]	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
MUSC_V 119-L02	MUSC_V	119		L02	Introduction to Music Technology		W2	Practical and theoretical training in technologies that support current artistic and academic practice, such as MIDI, podcasts/videocasts, websites, social media, and software for score notation, music education, and basic audio/video editing. [2-0-1]	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
MUSC_V 119-L03	MUSC_V	119		L03	Introduction to Music Technology		W2	Practical and theoretical training in technologies that support current artistic and academic practice, such as MIDI, podcasts/videocasts, websites, social media, and software for score notation, music education, and basic audio/video editing. [2-0-1]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 119-L04	MUSC_V	119		L04	Introduction to Music Technology		W2	Practical and theoretical training in technologies that support current artistic and academic practice, such as MIDI, podcasts/videocasts, websites, social media, and software for score notation, music education, and basic audio/video editing. [2-0-1]	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MUSC_V 119-L05	MUSC_V	119		L05	Introduction to Music Technology		W2	Practical and theoretical training in technologies that support current artistic and academic practice, such as MIDI, podcasts/videocasts, websites, social media, and software for score notation, music education, and basic audio/video editing. [2-0-1]	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 120-001	MUSC_V	120		001	History of Music I		W1	An overview of Western music from antiquity through the Middle Ages and Renaissance, providing a framework for understanding musical styles and practices, and examining selected compositions in greater analytical and historical depth.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MUSC_V 121-001	MUSC_V	121		001	History of Music II		W2	The development of Western music from circa 1600 to circa 1800. Prerequisite: MUSC 120. Or permission of the instructor	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MUSC_V 122-001	MUSC_V	122		001	Class Woodwinds		W1-2	Group instruction in music performance. Restricted to B.Mus. students.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.
MUSC_V 128-001	MUSC_V	128		001	Music and Human Experience		W1	A multi-disciplinary survey of music in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalised culture.	In Person Learning	Tue	8:30 a.m. - 9:30 a.m.
MUSC_V 128-D01	MUSC_V	128		D01	Music and Human Experience		W1	A multi-disciplinary survey of music in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalised culture.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.

MUSC_V 128-D02	MUSC_V	128		D02	Music and Human Experience	W1	A multi-disciplinary survey of music in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalised culture.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
MUSC_V 128-D03	MUSC_V	128		D03	Music and Human Experience	W1	A multi-disciplinary survey of music in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalised culture.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MUSC_V 131-001	MUSC_V	131		001	Class Voice	W1-2	Group instruction in music performance. Required of all first-time secondary voice students. Restricted to B.Mus. students.	In Person Learning	Arranged	Arranged
MUSC_V 135-001	MUSC_V	135		001	Opera Repertoire I	W1-2	A musico-dramatic study and analysis of representative works in the international operatic theatre from 1600 to the present, through musical, literary and graphic sources. Each sequential year of study, the student is expected to show increased facility in musical and dramatic analysis as well as a greater understanding of the works under examination. Open to students outside the B.Mus. program by permission of the instructor.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MUSC_V 135-002	MUSC_V	135		002	Opera Repertoire I	W2	A musico-dramatic study and analysis of representative works in the international operatic theatre from 1600 to the present, through musical, literary and graphic sources. Each sequential year of study, the student is expected to show increased facility in musical and dramatic analysis as well as a greater understanding of the works under examination. Open to students outside the B.Mus. program by permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 141-001	MUSC_V	141		001	Class Piano I	W1-2	Required of all first-time secondary piano students.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
MUSC_V 141-002	MUSC_V	141		002	Class Piano I	W1-2	Required of all first-time secondary piano students.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 149-001	MUSC_V	149		001	Collaborative Piano I	W1-2	Skills and performance practice with primary emphasis on voice/piano partnership principles and repertoire. Strong sight-reading skills essential. For Piano majors; open to others by audition.	In Person Learning	Thu	3:00 p.m. - 4:00 p.m.
MUSC_V 150-A_001	MUSC_V	150	A	A_001	Large Instrumental Ensemble (Lower Years)	W1-2	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 150-A_T01	MUSC_V	150	A	A_T01	Large Instrumental Ensemble (Lower Years)	W1-2	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 7:00 p.m.
MUSC_V 150-A_T02	MUSC_V	150	A	A_T02	Large Instrumental Ensemble (Lower Years)	W1-2	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 6:00 p.m.
MUSC_V 150-C_001	MUSC_V	150	C	C_001	Large Instrumental Ensemble (Lower Years)	W1-2	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 150-J_001	MUSC_V	150	J	J_001	Large Instrumental Ensemble (Lower Years)	W1-2	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 150-J_002	MUSC_V	150	J	J_002	Large Instrumental Ensemble (Lower Years)	W1-2	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 153-A_001	MUSC_V	153	A	A_001	University Singers (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
MUSC_V 154-A_001	MUSC_V	154	A	A_001	University Choral Union (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 7:00 p.m.
MUSC_V 156-A_001	MUSC_V	156	A	A_001	Vocal Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	7:00 p.m. - 9:30 p.m.
MUSC_V 156-B_001	MUSC_V	156	B	B_001	Vocal Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	7:00 p.m. - 9:30 p.m.
MUSC_V 156-C_001	MUSC_V	156	C	C_001	Vocal Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
MUSC_V 156-C_002	MUSC_V	156	C	C_002	Vocal Chamber Ensembles (Lower Years)	W2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
MUSC_V 157-A_001	MUSC_V	157	A	A_001	Early Music Ensemble (Lower Years)	W1-2	Performance of early Western instrumental and vocal ensemble music. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
MUSC_V 160-A_001	MUSC_V	160	A	A_001	String Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	3:00 p.m. - 6:00 p.m.

MUSC_V 160-C_003	MUSC_V	160	C	C_003	String Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 160-E_001	MUSC_V	160	E	E_001	String Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
MUSC_V 161-A_001	MUSC_V	161	A	A_001	Piano Chamber Ensembles (Lower Years)	W1-2	Open to students by audition, with credit, as stipulated by their faculties.	In Person Learning	Arranged	Arranged
MUSC_V 162-A_001	MUSC_V	162	A	A_001	Wind and Percussion Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 162-B_001	MUSC_V	162	B	B_001	Wind and Percussion Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
MUSC_V 162-C_001	MUSC_V	162	C	C_001	Wind and Percussion Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:30 p.m. - 5:00 p.m.
MUSC_V 162-E_001	MUSC_V	162	E	E_001	Wind and Percussion Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
MUSC_V 162-F_001	MUSC_V	162	F	F_001	Wind and Percussion Chamber Ensembles (Lower Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 163-A_001	MUSC_V	163	A	A_001	Contemporary Players (Lower Years)	W1-2	Performance of contemporary music. An ensemble of variable size, including both instrumentalists and singers, will be formed to present several concerts of 20th-century music during the academic year. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 164-A_001	MUSC_V	164	A	A_001	Jazz Ensemble (Lower Years)	W1-2	Performance techniques and repertoire. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 p.m. - 10:00 p.m.
MUSC_V 165-A_001	MUSC_V	165	A	A_001	World Music Ensembles (Lower Years)	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:30 p.m. - 3:00 p.m.
MUSC_V 165-B_001	MUSC_V	165	B	B_001	World Music Ensembles (Lower Years)	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	1:00 p.m. - 3:00 p.m.
MUSC_V 165-D_001	MUSC_V	165	D	D_001	World Music Ensembles (Lower Years)	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:30 p.m. - 7:00 p.m.
MUSC_V 167-001	MUSC_V	167		001	Introduction to Piano Chamber Music	W1-2	A survey of repertoire and performance issues.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
MUSC_V 169-A_001	MUSC_V	169	A	A_001	Intensive Chamber Ensemble (Lower Years)	W1	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-A_002	MUSC_V	169	A	A_002	Intensive Chamber Ensemble (Lower Years)	W2	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-B_001	MUSC_V	169	B	B_001	Intensive Chamber Ensemble (Lower Years)	W1	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-B_002	MUSC_V	169	B	B_002	Intensive Chamber Ensemble (Lower Years)	W2	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-C_001	MUSC_V	169	C	C_001	Intensive Chamber Ensemble (Lower Years)	W1	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-C_002	MUSC_V	169	C	C_002	Intensive Chamber Ensemble (Lower Years)	W2	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-D_001	MUSC_V	169	D	D_001	Intensive Chamber Ensemble (Lower Years)	W1	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-D_002	MUSC_V	169	D	D_002	Intensive Chamber Ensemble (Lower Years)	W2	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 169-E_001	MUSC_V	169	E	E_001	Intensive Chamber Ensemble (Lower Years)	W1	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged

MUSC_V 169-E_002	MUSC_V	169	E	E_002	Intensive Chamber Ensemble (Lower Years)	W2	Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 170-001	MUSC_V	170		001	Lyric Diction	W1-2	A study of the basic phonetics and accepted principles of lyric diction of the four languages most commonly used in concert and operatic repertoire: French, German, Italian, and English.	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MUSC_V 171-A_001	MUSC_V	171	A	A_001	Music Performance (Secondary)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 171-B_708	MUSC_V	171	B	B_708	Music Performance (Secondary)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-A_700	MUSC_V	182	A	A_700	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-A_705	MUSC_V	182	A	A_705	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-A_762	MUSC_V	182	A	A_762	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-B_708	MUSC_V	182	B	B_708	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-B_748	MUSC_V	182	B	B_748	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-C_712	MUSC_V	182	C	C_712	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-C_713	MUSC_V	182	C	C_713	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-D_721	MUSC_V	182	D	D_721	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-D_726	MUSC_V	182	D	D_726	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-D_735	MUSC_V	182	D	D_735	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-D_756	MUSC_V	182	D	D_756	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 182-D_761	MUSC_V	182	D	D_761	Music Performance (Concentration)	W1-2	Private instruction, vocal or instrumental.	In Person Learning	Arranged	Arranged
MUSC_V 200-001	MUSC_V	200		001	Chromatic Harmony and Voice Leading	W2	Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans. Compositional and analytical exercises. Prerequisite: [MUSC101]	In Person Learning	Tue Thu	11:00 a.m. - 12:00 p.m.
MUSC_V 200-D01	MUSC_V	200		D01	Chromatic Harmony and Voice Leading	W2	Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans. Compositional and analytical exercises. Prerequisite: [MUSC101]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 200-D02	MUSC_V	200		D02	Chromatic Harmony and Voice Leading	W2	Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans. Compositional and analytical exercises. Prerequisite: [MUSC101]	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MUSC_V 200-D03	MUSC_V	200		D03	Chromatic Harmony and Voice Leading	W2	Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans. Compositional and analytical exercises. Prerequisite: [MUSC101]	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 205-110	MUSC_V	205		110	Aural Skills III	W1	Continuation of MUSC 106. Restricted to B.Mus. students. Prerequisite: One of (a) a score of 68% or higher in MUSC 106, or (b) pass the MUSC 106 Challenge Test. Students may register for MUSC 205 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
MUSC_V 205-120	MUSC_V	205		120	Aural Skills III	W1	Continuation of MUSC 106. Restricted to B.Mus. students. Prerequisite: One of (a) a score of 68% or higher in MUSC 106, or (b) pass the MUSC 106 Challenge Test. Students may register for MUSC 205 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
MUSC_V 205-130	MUSC_V	205		130	Aural Skills III	W1	Continuation of MUSC 106. Restricted to B.Mus. students. Prerequisite: One of (a) a score of 68% or higher in MUSC 106, or (b) pass the MUSC 106 Challenge Test. Students may register for MUSC 205 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.

MUSC_V 206-210	MUSC_V	206		210	Aural Skills IV	W2	Continuation of MUSC 205. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 205, or (b) pass the MUSC 205 Challenge Test. Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
MUSC_V 206-220	MUSC_V	206		220	Aural Skills IV	W2	Continuation of MUSC 205. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 205, or (b) pass the MUSC 205 Challenge Test. Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
MUSC_V 206-230	MUSC_V	206		230	Aural Skills IV	W2	Continuation of MUSC 205. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 205, or (b) pass the MUSC 205 Challenge Test. Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MUSC_V 207-C_001	MUSC_V	207	C	C_001	Composition II	W1-2	Continuation of MUSC 107. Prerequisite: [MUSC107] and permission of Composition Division based on submission of scores. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 207-C_002	MUSC_V	207	C	C_002	Composition II	W1-2	Continuation of MUSC 107. Prerequisite: [MUSC107] and permission of Composition Division based on submission of scores. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 220-001	MUSC_V	220		001	History of Music III	W1	The development of Western music from circa 1800 to circa 1900. Prerequisite: All of MUSC 121, MUSC 100.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MUSC_V 221-001	MUSC_V	221		001	History of Music IV	W2	The development of Western music from circa 1900; an introduction to jazz and popular music and to music of selected non-Western societies. Prerequisite: All of MUSC 220, MUSC 100.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MUSC_V 235-001	MUSC_V	235		001	Opera Repertoire II	W1-2	See MUSC 135.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MUSC_V 236-C_001	MUSC_V	236	C	C_001	Piano Repertoire II	W1-2	Continuation of MUSC 136.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
MUSC_V 241-001	MUSC_V	241		001	Class Piano II	W1-2	Continuation of MUSC 141.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 241-002	MUSC_V	241		002	Class Piano II	W1-2	Continuation of MUSC 141.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
MUSC_V 249-001	MUSC_V	249		001	Collaborative Piano II	W1-2	Further development of skills and performance practice with primary emphasis on voice/piano partnership principles and repertoire. Strong sight-reading skills essential. For Piano majors; open to others by audition. Prerequisite: [MUSC149]	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
MUSC_V 271-A_001	MUSC_V	271	A	A_001	Music Performance (Secondary)	W1-2	Private instruction, vocal or instrumental. Prerequisite: One of MUSC 171, MUSC 172, MUSC 181, MUSC 182, MUSC 183, MUSC 191, MUSC 192, MUSC 193.	In Person Learning	Arranged	Arranged
MUSC_V 300-001	MUSC_V	300		001	Compositional and Analytical Approaches to Post-Tonal Music	W1	Concepts essential to understanding and performing art music, since 1900, in which functional triadic harmony is absent or subsidiary to other musical processes. Detailed consideration of works of major composers up to the present, through analysis, composition, and musicianship exercises. Prerequisite: MUSC 200.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.
MUSC_V 300-D01	MUSC_V	300		D01	Compositional and Analytical Approaches to Post-Tonal Music	W1	Concepts essential to understanding and performing art music, since 1900, in which functional triadic harmony is absent or subsidiary to other musical processes. Detailed consideration of works of major composers up to the present, through analysis, composition, and musicianship exercises. Prerequisite: MUSC 200.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 300-D02	MUSC_V	300		D02	Compositional and Analytical Approaches to Post-Tonal Music	W1	Concepts essential to understanding and performing art music, since 1900, in which functional triadic harmony is absent or subsidiary to other musical processes. Detailed consideration of works of major composers up to the present, through analysis, composition, and musicianship exercises. Prerequisite: MUSC 200.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
MUSC_V 300-D03	MUSC_V	300		D03	Compositional and Analytical Approaches to Post-Tonal Music	W1	Concepts essential to understanding and performing art music, since 1900, in which functional triadic harmony is absent or subsidiary to other musical processes. Detailed consideration of works of major composers up to the present, through analysis, composition, and musicianship exercises. Prerequisite: MUSC 200.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 305-A_001	MUSC_V	305	A	A_001	Readings in Orchestral Repertoire	W1-2	Laboratory course for orchestral performance majors. Emphasis on reading a large cross-section of standard orchestral repertoire, especially music currently being programmed by local professional orchestras. Restricted to Orchestral Instruments majors, except by permission of the instructor.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
MUSC_V 307-C_001	MUSC_V	307	C	C_001	Composition III	W1-2	Continuation of MUSC 207. Prerequisite: [MUSC207] and permission of Composition Division based on submission of scores. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 307-C_002	MUSC_V	307	C	C_002	Composition III	W1-2	Continuation of MUSC 207. Prerequisite: [MUSC207] and permission of Composition Division based on submission of scores. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 309-001	MUSC_V	309		001	Instrumentation	W1	The study of string, woodwind, brass and percussion instruments; orchestral sections and scoring for various small ensembles. Activities include demonstrations of instruments, scoring projects, analysis and listening. For credit towards the B.Mus. and the B.A. in Music; not open to other students. Prerequisite: MUSC 200. and completion of the second-year piano requirement.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
MUSC_V 310-001	MUSC_V	310		001	Orchestration	W2	The study of orchestration through the analysis of orchestral works, listening and scoring projects. Activities also include choral arranging and scoring for stage band and wind ensemble. Prerequisite: [MUSC309]	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.

MUSC_V 311-001	MUSC_V	311	001	Fundamentals of Conducting	W1	Basic conducting techniques: patterns, cueing, dynamic shading, and physical presentation. Prerequisite: MUSC 200. and completion of the second-year piano requirement.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.	
MUSC_V 311-002	MUSC_V	311	002	Fundamentals of Conducting	W1	Basic conducting techniques: patterns, cueing, dynamic shading, and physical presentation. Prerequisite: MUSC 200. and completion of the second-year piano requirement.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.	
MUSC_V 312-001	MUSC_V	312	001	Instrumental Conducting	W2	The relation of conducting gestures to instrumental sound; development of practical skills in directing ensembles and reading scores, considering instruments' special characteristics. Prerequisite: MUSC 311.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.	
MUSC_V 313-001	MUSC_V	313	001	Choral Conducting	W2	The relation of conducting gestures to choral sound; development of practical skills in directing ensembles and reading scores; attendant issues of vocal technique and pedagogy. Prerequisite: MUSC 311.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.	
MUSC_V 319-A_001	MUSC_V	319	A	A_001	Electroacoustic Music	W1	Study of acoustics, audio technology, and electroacoustic composition. Composition of original works using the UBC Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119 and one of MUSC 100, MUSC 103. Permission of instructor is also required.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 319-A_002	MUSC_V	319	A	A_002	Electroacoustic Music	W1	Study of acoustics, audio technology, and electroacoustic composition. Composition of original works using the UBC Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119 and one of MUSC 100, MUSC 103. Permission of instructor is also required.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
MUSC_V 320-001	MUSC_V	320	001	Computer Music	W2	The study of computer applications to music, focusing on digital synthesis techniques and languages, methods of algorithmic composition, and the design of music editors. Prerequisite: [MUSC319] or permission of instructor.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
MUSC_V 323-001	MUSC_V	323	001	History of Popular Music	W1	Genres of popular music from 1950 to the present and their changing aesthetic, social, cultural, and historical dimensions. Prior experience with music notation and terminology is not required. This course is not acceptable for credit toward the B.Mus., or toward the B.A. major, honours, or minor in Music.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
MUSC_V 326-A_001	MUSC_V	326	A	A_001	Music Appreciation	W2	An introductory course for which previous musical background is helpful, but not required. Contents include a discussion of musical concepts, evolution of forms, style, and media and detailed study of selected works from the concert repertoire. Popular forms of music (jazz, folk, rock, etc) not included. Not for credit towards the B.Mus. or B.A. in Music.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
MUSC_V 326-B_001	MUSC_V	326	B	B_001	Music Appreciation	W2	An introductory course for which previous musical background is helpful, but not required. Contents include a discussion of musical concepts, evolution of forms, style, and media and detailed study of selected works from the concert repertoire. Popular forms of music (jazz, folk, rock, etc) not included. Not for credit towards the B.Mus. or B.A. in Music.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
MUSC_V 328-E_001	MUSC_V	328	E	E_001	World Music Cultures	W1	Introduction to the principles of ethnomusicology and an examination of at least two contrasting musical traditions. May be repeated once for credit if different traditions are covered.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MUSC_V 333-001	MUSC_V	333	001	Accompanying on the Harpsichord I	W1-2	Basic techniques and styles of continuo playing. Open to keyboard players with no previous harpsichord experience.	In Person Learning	Mon	10:30 a.m. - 12:00 p.m.	
MUSC_V 336-001	MUSC_V	336	001	Opera Theatre Techniques I	W1-2	Performance techniques associated with the musical theatre of various historical periods. Basic dance. Most operatic excerpts will be in English.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.	
MUSC_V 339-C_001	MUSC_V	339	C	C_001	Opera Workshop I	W1-2	Participation in performances by the School. Open also to students outside Music without credit, after audition.	In Person Learning	Mon Wed	4:00 p.m. - 7:00 p.m.
MUSC_V 340-001	MUSC_V	340	001	Piano Pedagogy I: Theory and Studio Management	W1-2	Basic principles of teaching piano. Business aspects of establishing and maintaining a music studio. For Piano Performance majors; open to other Bachelor of Music students by permission of the instructor.	In Person Learning	Thu	1:00 p.m. - 2:30 p.m.	
MUSC_V 349-001	MUSC_V	349	001	Keyboard Harmony and Transposition	W1-2	Designed for the keyboard performance major and keyboard concentrator in General Studies. Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 150.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.	
MUSC_V 350-A_010	MUSC_V	350	A	A_010	Large Instrumental Ensemble (Upper Years)	W1	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 150.	In Person Learning	Arranged	Arranged
MUSC_V 350-C_001	MUSC_V	350	C	C_001	Large Instrumental Ensemble (Upper Years)	W1-2	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 150.	In Person Learning	Mon Wed	6:00 p.m. - 8:00 p.m.
MUSC_V 350-C_010	MUSC_V	350	C	C_010	Large Instrumental Ensemble (Upper Years)	W1	Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 150.	In Person Learning	Arranged	Arranged
MUSC_V 354-001	MUSC_V	354	001	Baroque Music	W2	Prerequisite: MUSC 121. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 160.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.	
MUSC_V 360-A_001	MUSC_V	360	A	A_001	String Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 160.	In Person Learning	Mon Wed Fri	3:00 p.m. - 6:00 p.m.
MUSC_V 360-E_001	MUSC_V	360	E	E_001	String Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 160.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.

MUSC_V 361-A_001	MUSC_V	361	A	A_001	Piano Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to other students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 161.	In Person Learning	Mon Wed	3:00 p.m. - 6:00 p.m.
MUSC_V 362-A_001	MUSC_V	362	A	A_001	Wind and Percussion Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 162.	In Person Learning	Arranged	Arranged
MUSC_V 362-B_001	MUSC_V	362	B	B_001	Wind and Percussion Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 162.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
MUSC_V 362-C_001	MUSC_V	362	C	C_001	Wind and Percussion Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 162.	In Person Learning	Fri	3:30 p.m. - 5:00 p.m.
MUSC_V 362-E_001	MUSC_V	362	E	E_001	Wind and Percussion Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 162.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
MUSC_V 363-001	MUSC_V	363		001	History and Repertoire of the Guitar and Related Instruments	W1-2	A chronological survey, from the Renaissance to the present day, of music for the guitar and related instruments and of the development of the instruments themselves. Instruments considered include Renaissance and Baroque lutes, the vihuela, and early types of guitar as well as the modern six-string guitar. Musical forms and genres, national schools and the works of principal composers of every period are explored and attention is given to national systems, continuo realization, historical ornamentation and pedagogical systems. Prerequisite: [MUSC221]	In Person Learning	Arranged	Arranged
MUSC_V 365-001	MUSC_V	365		001	Song Repertoire I	W1-2	An exploration of the solo art song repertoire from 1600 to the Romantic period. Repertoire essential to the performer and teacher will be studied through live and recorded performance with special attention given to poetic content and musical style. Prerequisite: [MUSC221]	In Person Learning	Fri	2:00 p.m. - 3:30 p.m.
MUSC_V 366-A_001	MUSC_V	366	A	A_001	University Choral Union (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 154.	In Person Learning	Tue Thu	5:00 p.m. - 7:00 p.m.
MUSC_V 371-S_001	MUSC_V	371	S	S_001	Music Performance (Secondary)	W1	Private instruction, vocal or instrumental. Prerequisite: One of MUSC 271, MUSC 272, MUSC 281, MUSC 283, MUSC 291, MUSC 292, MUSC 293.	In Person Learning	Tue	3:30 p.m. - 4:30 p.m.
MUSC_V 402-A_001	MUSC_V	402	A	A_001	Special Projects	W1	For fourth-year students who receive permission of the Director of the School of Music to do advanced studies in their major field.	In Person Learning	Arranged	Arranged
MUSC_V 402-B_002	MUSC_V	402	B	B_002	Special Projects	W2	For fourth-year students who receive permission of the Director of the School of Music to do advanced studies in their major field.	In Person Learning	Arranged	Arranged
MUSC_V 402-C_003	MUSC_V	402	C	C_003	Special Projects	W1-2	For fourth-year students who receive permission of the Director of the School of Music to do advanced studies in their major field.	In Person Learning	Arranged	Arranged
MUSC_V 402-E_001	MUSC_V	402	E	E_001	Special Projects	W1-2	For fourth-year students who receive permission of the Director of the School of Music to do advanced studies in their major field.	In Person Learning	Arranged	Arranged
MUSC_V 403-A_001	MUSC_V	403	A	A_001	Selected Topics in Music	W1-2	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Mon Wed	3:00 p.m. - 4:00 p.m.
MUSC_V 403-B_001	MUSC_V	403	B	B_001	Selected Topics in Music	W2	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Wed	1:00 p.m. - 3:30 p.m.
MUSC_V 403-C_001	MUSC_V	403	C	C_001	Selected Topics in Music	W1	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
MUSC_V 403-D_001	MUSC_V	403	D	D_001	Selected Topics in Music	W1	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
MUSC_V 403-E_001	MUSC_V	403	E	E_001	Selected Topics in Music	W1	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Mon	8:00 a.m. - 9:30 a.m.
MUSC_V 403-F_001	MUSC_V	403	F	F_001	Selected Topics in Music	W1	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Wed	1:00 p.m. - 3:30 p.m.
MUSC_V 403-H_001	MUSC_V	403	H	H_001	Selected Topics in Music	W1	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Thu	1:00 p.m. - 3:30 p.m.
MUSC_V 403-I_001	MUSC_V	403	I	I_001	Selected Topics in Music	W2	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
MUSC_V 403-R_001	MUSC_V	403	R	R_001	Selected Topics in Music	W2	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Mon	1:00 p.m. - 3:30 p.m.

MUSC_V 403-U_001	MUSC_V	403	U	U_001	Selected Topics in Music	W1	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Thu	12:00 p.m. - 2:30 p.m.
MUSC_V 403-W_001	MUSC_V	403	W	W_001	Selected Topics in Music	W1	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
MUSC_V 403-Y_001	MUSC_V	403	Y	Y_001	Selected Topics in Music	W2	See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.	In Person Learning	Thu	1:00 p.m. - 3:30 p.m.
MUSC_V 407-C_001	MUSC_V	407	C	C_001	Composition IV	W1-2	Continuation of MUSC 307. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 411-001	MUSC_V	411		001	Analysis of Tonal Music	W1	Analytical approaches that complement Schenkerian analysis, including motivic construction, harmonic rhythm and phrase rhythm, chromaticism and enharmonicism, features of musical form, aspects of structure and hierarchy at the small and large scale. Prerequisite: MUSC 200.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
MUSC_V 412-001	MUSC_V	412		001	Analytical Studies in the Development of Musical Modernism (1860 - 1940)	W2	Analysis of late- and post-romantic works within a theoretical framework that bridges earlier to later works. Assignments in various formats, emphasizing analysis but possibly including composition. Prerequisite: MUSC 200.	In Person Learning	Wed Fri	1:00 p.m. - 2:30 p.m.
MUSC_V 413-001	MUSC_V	413		001	Contemporary Art Music: Theory and Analysis	W2	A technical approach to the diverse concert-music repertoire since 1950, including orchestral, chamber, solo, and electro-acoustic genres. Applicable theories of pitch and rhythm, with reference to composers' own writings. Prerequisite: MUSC 300.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
MUSC_V 414-001	MUSC_V	414		001	Counterpoint	W1	Analysis and composition of pieces that rely on the control and development of imitative, polyphonic textures. Models to be taken from one or more European historical repertoires. Prerequisite: MUSC 200.	In Person Learning	Mon	1:00 p.m. - 3:30 p.m.
MUSC_V 419-A_001	MUSC_V	419	A	A_001	Interactive Performance Systems	W1	Collaborative projects developing new connections between sound and gestures in live concert performance or responsive environments using multiple digital technologies. May be repeated once for credit. Prerequisite: MUSC 320.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
MUSC_V 420-001	MUSC_V	420		001	Music Technology Capstone Project	W1-2	Supervised individual music technology project on an approved topic. Restricted to students in the Minor in Applied Music Technology Prerequisite: MUSC 419. And permission of the Instructor.	In Person Learning	Arranged	Arranged
MUSC_V 428-D_001	MUSC_V	428	D	D_001	Topics in World Music	W1	The history, theory, style, organology, and forms of the music of a particular culture in its aesthetic and cultural context. Students should consult the School as to which music culture will be covered in a particular year. May be repeated once for credit if different cultures are covered. Prerequisite: [MUSC328] or instructor's permission.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
MUSC_V 428-E_001	MUSC_V	428	E	E_001	Topics in World Music	W2	The history, theory, style, organology, and forms of the music of a particular culture in its aesthetic and cultural context. Students should consult the School as to which music culture will be covered in a particular year. May be repeated once for credit if different cultures are covered. Prerequisite: [MUSC328] or instructor's permission.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
MUSC_V 433-001	MUSC_V	433		001	Accompanying on the Harpsichord II	W1-2	Continuation of MUSC 333 with emphasis on more advanced continuo and obbligato techniques. Prerequisite: [MUSC333]	In Person Learning	Mon	10:30 a.m. - 12:00 p.m.
MUSC_V 436-001	MUSC_V	436		001	Opera Theatre Techniques II	W1-2	Advanced studies in acting, movement, gesture, dance and stage combat. Emphasis on communication and the art of singing and acting recitative in foreign languages.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.
MUSC_V 439-C_001	MUSC_V	439	C	C_001	Opera Workshop II	W1-2	A continuation of MUSC 339.	In Person Learning	Mon Wed	4:00 p.m. - 7:00 p.m.
MUSC_V 442-C_001	MUSC_V	442	C	C_001	Song Interpretation	W1-2	Interpretation and performance practice of Art Song repertoire for voice and piano collaborations. Restricted to MMus and BMus in Piano Performance, Opera, Voice Performance, and students in the Diploma in Collaborative Piano Studies program.	In Person Learning	Fri	3:30 p.m. - 6:00 p.m.
MUSC_V 444-001	MUSC_V	444		001	Establishing a Career in Music	W2	Best practices of the contemporary business of music, focusing on understanding present market conditions, and on targeting specific opportunities through grant-writing, resumés, press kits, publicity, recordings, and marketing. Restricted to fourth-year B.Mus. students. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 153.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
MUSC_V 453-A_001	MUSC_V	453	A	A_001	University Singers (Upper Years)	W1-2	The development of opera between 1800 and the present. Prerequisite: All of MUSC 220, MUSC 221. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 156.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
MUSC_V 455-001	MUSC_V	455		001	History of Opera II	W2	The development of opera between 1800 and the present. Prerequisite: All of MUSC 220, MUSC 221. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 156.	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
MUSC_V 456-A_001	MUSC_V	456	A	A_001	Vocal Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 156.	In Person Learning	Thu	7:00 p.m. - 9:30 p.m.
MUSC_V 456-B_001	MUSC_V	456	B	B_001	Vocal Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 156.	In Person Learning	Thu	7:00 p.m. - 9:30 p.m.
MUSC_V 456-C_001	MUSC_V	456	C	C_001	Vocal Chamber Ensembles (Upper Years)	W1-2	May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 156.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.

MUSC_V 457-A_001	MUSC_V	457	A	A_001	Early Music Ensemble (Upper Years)	W1-2	Performance of early Western instrumental and vocal ensemble music. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC 157.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
MUSC_V 463-A_001	MUSC_V	463	A	A_001	Contemporary Players (Upper Years)	W1-2	Performance of contemporary music. An ensemble of variable size, including both instrumentalists and singers, will be formed to present several concerts of 20th-century music during the academic year. May be taken twice for credit. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 163.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 464-A_001	MUSC_V	464	A	A_001	Jazz Ensemble (Upper Years)	W1-2	Performance techniques and repertoire. May be taken twice for credit. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 164.	In Person Learning	Tue	8:00 p.m. - 10:00 p.m.
MUSC_V 466-A_001	MUSC_V	466	A	A_001	World Music Ensembles (Upper Years)	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 165.	In Person Learning	Tue Thu	1:30 p.m. - 3:00 p.m.
MUSC_V 466-B_001	MUSC_V	466	B	B_001	World Music Ensembles (Upper Years)	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 165.	In Person Learning	Wed Fri	1:00 p.m. - 3:00 p.m.
MUSC_V 466-D_001	MUSC_V	466	D	D_001	World Music Ensembles (Upper Years)	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. Restricted to students with 3rd year standing or above. Prerequisite: MUSC 165.	In Person Learning	Tue Thu	5:30 p.m. - 7:00 p.m.
MUSC_V 469-A_001	MUSC_V	469	A	A_001	Interdisciplinary Projects	W1	Group projects and workshops with students majoring in other creative arts. Prerequisite: Permission of instructor. Credit will be granted for only one of MUSC 469 or THTR 469 or VISA 469 or CRWR 440. Equivalency: THTR 469, VISA 469, CRWR 440	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
MUSC_V 500-A_001	MUSC_V	500	A	A_001	Advanced Musical Analysis	W1	Recommended pre-requisite: one of MUSC 410, MUSC 411, MUSC 412, MUSC 413. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:00 a.m. - 11:30 a.m.
MUSC_V 500-B_001	MUSC_V	500	B	B_001	Advanced Musical Analysis	W2	Recommended pre-requisite: one of MUSC 410, MUSC 411, MUSC 412, MUSC 413. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	1:00 p.m. - 2:30 p.m.
MUSC_V 500-C_001	MUSC_V	500	C	C_001	Advanced Musical Analysis	W2	Recommended pre-requisite: one of MUSC 410, MUSC 411, MUSC 412, MUSC 413. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
MUSC_V 506-A_001	MUSC_V	506	A	A_001	Readings in Orchestral Repertoire	W1-2	Standard repertoire for orchestral instrumentalists. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
MUSC_V 507-C_001	MUSC_V	507	C	C_001	Composition	W1-2	The composition of original music for conventional instruments and/or electronic media. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 508-C_001	MUSC_V	508	C	C_001	Composition	W1-2	A continuation of MUSC 507. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MUSC507] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 509-B_001	MUSC_V	509	B	B_001	Advanced Orchestration and Arranging	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
MUSC_V 512-A_001	MUSC_V	512	A	A_001	Directed Individual Studies	W1	Approval by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 512-A_003	MUSC_V	512	A	A_003	Directed Individual Studies	W1-2	Approval by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 512-B_001	MUSC_V	512	B	B_001	Directed Individual Studies	W2	Approval by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 512-C_001	MUSC_V	512	C	C_001	Directed Individual Studies	W1-2	Approval by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	7:00 a.m. - 7:30 a.m.
MUSC_V 512-D_001	MUSC_V	512	D	D_001	Directed Individual Studies	W1-2	Approval by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.
MUSC_V 512-E_001	MUSC_V	512	E	E_001	Directed Individual Studies	W1-2	Approval by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 512-E_010	MUSC_V	512	E	E_010	Directed Individual Studies	W1-2	Approval by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 520-A_001	MUSC_V	520	A	A_001	Introduction to Music Research	W1	Principal resources of the research library. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:00 a.m.

MUSC_V 521-C_001	MUSC_V	521	C	C_001	Seminar in Performance Practices	W1-2	Studies in the theoretical and practical problems of musical interpretation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 521-D_001	MUSC_V	521	D	D_001	Seminar in Performance Practices	W1-2	Studies in the theoretical and practical problems of musical interpretation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 4:00 p.m.
MUSC_V 524-B_001	MUSC_V	524	B	B_001	Seminar in Renaissance Music	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
MUSC_V 527-H_001	MUSC_V	527	H	H_001	Seminar in Nineteenth-Century Music	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:30 p.m.
MUSC_V 529-T_001	MUSC_V	529	T	T_001	Introduction to Ethnomusicology	W1	Preliminary studies in the discipline of ethnomusicology, with an emphasis on history and orientations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
MUSC_V 530-B_001	MUSC_V	530	B	B_001	Topics in Ethnomusicology	W2	Topics involving methodology and fieldwork in non-Western traditions. Topics will vary and students should consult the School as to areas of focus in any given term. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:30 p.m.
MUSC_V 531-B_001	MUSC_V	531	B	B_001	Seminar in Ethnomusicology	W1	Research studies in selected areas or regions of world music cultures. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MUSC529]	In Person Learning	Wed	10:00 a.m. - 12:30 p.m.
MUSC_V 532-J_001	MUSC_V	532	J	J_001	Advanced Studies in Music History and Musicology	W2	Research seminar on a core or emerging topic in music history or musicology. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
MUSC_V 532-W_001	MUSC_V	532	W	W_001	Advanced Studies in Music History and Musicology	W1	Research seminar on a core or emerging topic in music history or musicology. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
MUSC_V 533-B_001	MUSC_V	533	B	B_001	Advanced Studies in Music Theory	W2	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 3:30 p.m.
MUSC_V 533-D_001	MUSC_V	533	D	D_001	Advanced Studies in Music Theory	W1	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:30 a.m. - 12:00 p.m.
MUSC_V 533-E_001	MUSC_V	533	E	E_001	Advanced Studies in Music Theory	W2	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
MUSC_V 533-F_001	MUSC_V	533	F	F_001	Advanced Studies in Music Theory	W1	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 3:30 p.m.
MUSC_V 533-G_001	MUSC_V	533	G	G_001	Advanced Studies in Music Theory	W2	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:30 p.m.
MUSC_V 533-R_001	MUSC_V	533	R	R_001	Advanced Studies in Music Theory	W2	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:30 p.m.
MUSC_V 533-U_001	MUSC_V	533	U	U_001	Advanced Studies in Music Theory	W1	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:00 p.m. - 2:30 p.m.
MUSC_V 533-Y_001	MUSC_V	533	Y	Y_001	Advanced Studies in Music Theory	W2	Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:30 p.m.
MUSC_V 535-001	MUSC_V	535		001	Art Song: Interpretation, Collaboration, and Performance	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
MUSC_V 537-C_001	MUSC_V	537	C	C_001	Seminar in the Literature of Opera	W1-2	Special topics related to the bibliography, history, repertoire and pedagogy of operatic music. This course is not eligible for Credit/D/Fail grading. Prerequisite: [MUSC221, MUSC301, MUSC454, MUSC455, MUSC520]	In Person Learning	Tue	11:00 a.m. - 1:00 p.m.
MUSC_V 539-C_001	MUSC_V	539	C	C_001	Opera Production	W1-2	Stylistic and technical studies and participation in the production of opera performances. May be repeated for credit, in accordance with program requirements. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSC439	In Person Learning	Mon Wed	4:00 p.m. - 7:00 p.m.
MUSC_V 544-A_001	MUSC_V	544	A	A_001	Seminar in Conducting and Repertoire I	W1-2	Advanced study of conducting techniques and of representative major compositions and literature (earlier historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genre, idiom, form, texture, and style, in rehearsal and performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
MUSC_V 544-B_001	MUSC_V	544	B	B_001	Seminar in Conducting and Repertoire I	W1-2	Advanced study of conducting techniques and of representative major compositions and literature (earlier historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genre, idiom, form, texture, and style, in rehearsal and performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.	In Person Learning	Arranged	Arranged

MUSC_V 545-B_001	MUSC_V	545	B	B_001	Seminar in Conducting and Repertoire II	W1-2	Advanced study of conducting techniques and of representative major compositions and literature (later historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genre, idiom, form, texture, and style, in rehearsal and performance. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.	In Person Learning	Arranged	Arranged
MUSC_V 545-C_001	MUSC_V	545	C	C_001	Seminar in Conducting and Repertoire II	W1-2	Advanced study of conducting techniques and of representative major compositions and literature (later historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genre, idiom, form, texture, and style, in rehearsal and performance. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.	In Person Learning	Mon	8:00 a.m. - 10:00 a.m.
MUSC_V 549-A_001	MUSC_V	549	A	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 549-A_002	MUSC_V	549	A	A_002	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 549-A_003	MUSC_V	549	A	A_003	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
MUSC_V 549-A_004	MUSC_V	549	A	A_004	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 550-A_001	MUSC_V	550	A	A_001	Large Instrumental Ensemble	W1-2	Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 550-A_002	MUSC_V	550	A	A_002	Large Instrumental Ensemble	W1-2	Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 7:00 p.m.
MUSC_V 550-A_T01	MUSC_V	550	A	A_T01	Large Instrumental Ensemble	W1-2	Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	4:00 p.m. - 7:00 p.m.
MUSC_V 550-A_T02	MUSC_V	550	A	A_T02	Large Instrumental Ensemble	W1-2	Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	3:00 p.m. - 6:00 p.m.
MUSC_V 550-B_001	MUSC_V	550	B	B_001	Large Instrumental Ensemble	W1-2	Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 550-C_001	MUSC_V	550	C	C_001	Large Instrumental Ensemble	W1-2	Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	6:00 p.m. - 8:00 p.m.
MUSC_V 553-A_001	MUSC_V	553	A	A_001	University Singers	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
MUSC_V 554-A_001	MUSC_V	554	A	A_001	University Choral Union	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:00 p.m. - 7:00 p.m.
MUSC_V 556-A_001	MUSC_V	556	A	A_001	Vocal Chamber Ensemble	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	7:00 p.m. - 9:30 p.m.
MUSC_V 556-B_001	MUSC_V	556	B	B_001	Vocal Chamber Ensemble	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	7:00 p.m. - 9:30 p.m.
MUSC_V 556-C_001	MUSC_V	556	C	C_001	Vocal Chamber Ensemble	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
MUSC_V 557-A_001	MUSC_V	557	A	A_001	Early Music Ensemble	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
MUSC_V 560-A_001	MUSC_V	560	A	A_001	String Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	3:00 p.m. - 6:00 p.m.
MUSC_V 560-C_001	MUSC_V	560	C	C_001	String Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 560-E_001	MUSC_V	560	E	E_001	String Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 5:00 p.m.
MUSC_V 561-A_001	MUSC_V	561	A	A_001	Piano Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

MUSC_V 562-A_001	MUSC_V	562	A	A_001	Wind and Percussion Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 562-B_001	MUSC_V	562	B	B_001	Wind and Percussion Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
MUSC_V 562-C_001	MUSC_V	562	C	C_001	Wind and Percussion Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:30 p.m. - 5:00 p.m.
MUSC_V 562-E_001	MUSC_V	562	E	E_001	Wind and Percussion Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 3:30 p.m.
MUSC_V 562-F_001	MUSC_V	562	F	F_001	Wind and Percussion Chamber Ensembles	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 563-A_001	MUSC_V	563	A	A_001	Contemporary Players	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
MUSC_V 564-A_001	MUSC_V	564	A	A_001	Jazz Ensemble	W1-2	Open only to graduate students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 p.m. - 10:00 p.m.
MUSC_V 565-A_001	MUSC_V	565	A	A_001	World Music Ensembles	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:30 p.m. - 3:00 p.m.
MUSC_V 565-B_001	MUSC_V	565	B	B_001	World Music Ensembles	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	1:00 p.m. - 3:00 p.m.
MUSC_V 565-D_001	MUSC_V	565	D	D_001	World Music Ensembles	W1-2	Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	5:30 p.m. - 7:00 p.m.
MUSC_V 569-A_001	MUSC_V	569	A	A_001	Intensive Specialized Chamber Ensemble	W1-2	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-A_002	MUSC_V	569	A	A_002	Intensive Specialized Chamber Ensemble	W1-2	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-B_001	MUSC_V	569	B	B_001	Intensive Specialized Chamber Ensemble	W1	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-B_002	MUSC_V	569	B	B_002	Intensive Specialized Chamber Ensemble	W1	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-C_001	MUSC_V	569	C	C_001	Intensive Specialized Chamber Ensemble	W2	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-C_002	MUSC_V	569	C	C_002	Intensive Specialized Chamber Ensemble	W2	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-D_001	MUSC_V	569	D	D_001	Intensive Specialized Chamber Ensemble	W1	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-D_002	MUSC_V	569	D	D_002	Intensive Specialized Chamber Ensemble	W1	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 569-D_717	MUSC_V	569	D	D_717	Intensive Specialized Chamber Ensemble	W1	Intensive coaching. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
MUSC_V 606-A_001	MUSC_V	606	A	A_001	Readings in Orchestral Repertoire	W1-2	Continuation of MUSC 506. This course is not eligible for Credit/D/Fail grading. Further study for doctoral candidates in Composition. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 11:00 a.m.
MUSC_V 607-C_001	MUSC_V	607	C	C_001	Composition	W1-2	The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
MUSC_V 649-001	MUSC_V	649		001	Ph.D. Dissertation or D.M.A. Thesis	W1-2		In Person Learning	Arranged	Arranged
MUSC_V 649-002	MUSC_V	649		002	Ph.D. Dissertation or D.M.A. Thesis	W1		In Person Learning	Arranged	Arranged

MUSC_V 649-003	MUSC_V	649	003	Ph.D. Dissertation or D.M.A. Thesis	W2		In Person Learning	Arranged	Arranged	
MUSC_V 649-004	MUSC_V	649	004	Ph.D. Dissertation or D.M.A. Thesis	W1-2		In Person Learning	Arranged	Arranged	
NAME_V 501-201	NAME_V	501	201	Advanced Ship Structures	W2	Pressure hull design; finite element analysis applications; classification rules; ice and ice loads; dynamic loads including slamming, risk and reliability. This course is not eligible for Credit/D/Fail grading. Prerequisite: CIVL 435.	In Person Learning	Arranged	Arranged	
NAME_V 502-201	NAME_V	502	201	Advanced Ship Hydrodynamics	W2	Advanced ship resistance; boundary layers; propeller design; numerical methods in hydrodynamics; advanced marine vehicles; ocean waves; cavitation; ship vibration. Includes a laboratory component involving a wave/towing tank and computational fluid dynamics project. This course is not eligible for Credit/D/Fail grading. Prerequisite: MECH 488.	In Person Learning	Arranged	Arranged	
NAME_V 522-201	NAME_V	522	201	Ship Production and Industrial Engineering	W2	Build strategy; shipyard layout and equipment; manufacturing techniques; outfitting and painting techniques; material properties; corrosion; welding; fatigue; composite materials. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
NAME_V 524-101	NAME_V	524	101	Shipbuilding Project Management	W1	Terminology; planning; scheduling; budgeting and cost accounting; risk management; quality control; shipbuilding applications. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
NAME_V 566-201	NAME_V	566	201	Ship Dynamics and Control	W2	Equations of motion; ocean wave spectrums, response amplitude operators; seakeeping; maneuvering; stability; dynamic positioning. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
NAME_V 578-101	NAME_V	578	101	Marine Engineering	W1	Marine propulsion systems; ship engines; shafting; ship vibrations; on-board systems (piping, HVAC, electrical); advanced propulsion systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
NAME_V 581-101	NAME_V	581	101	Introduction to Ship Design	W1	This course is not eligible for Credit/D/Fail grading. Corequisite: All of MECH 488, CIVL 435, NAME 524.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
NAME_V 591-201	NAME_V	591	201	Computer-Aided Ship Design Project	W2	A capstone design project designed to give students experience in the preliminary design of a special purpose ship. Students work individually and in teams, using advanced design software and databases, to design a vessel according to specified criteria. Recommended pre-requisites: All of NAME 581, NAME 578. Recommended co-requisites: All of NAME 502, NAME 522, NAME 501, NAME 566.	In Person Learning	Arranged	Arranged	
NEST_V 101-102	NEST_V	101	102	Introduction to Near Eastern and Egyptian Archaeology	W1	An overview of the past two centuries of archaeological investigations of the civilizations of the ancient Near East and Egypt.	In Person Learning	Arranged	Arranged	
NORD_V 332-B_101	NORD_V	332	B	B_101	Nordic Studies in Focus	W1	Topics that respond to current events and emerging research in Nordic cultural studies. Find out which special topic will be explored in the current or coming year at <a href="https://cen.ubc.ca/courses">https://cen.ubc.ca/courses</a> . A maximum of 6 credits will be granted for SCAN 332 or NORD 332.	In Person Learning	Arranged	Arranged
NORD_V 332-B_201	NORD_V	332	B	B_201	Nordic Studies in Focus	W2	Topics that respond to current events and emerging research in Nordic cultural studies. Find out which special topic will be explored in the current or coming year at <a href="https://cen.ubc.ca/courses">https://cen.ubc.ca/courses</a> . A maximum of 6 credits will be granted for SCAN 332 or NORD 332.	In Person Learning	Arranged	Arranged
NORD_V 333-201	NORD_V	333	201	Nordic Literary Cultures	W2	Contemporary and historical Nordic literatures that reflect the major societal, political and cultural aspects of the circumpolar North. Credit will be granted for only one of SCAN 333 or NORD 333. Equivalency: SCAN 333.	In Person Learning	Arranged	Arranged	
NORD_V 334-101	NORD_V	334	101	Nordic Contemporary Fiction	W1	Explore Nordic societies through recent literature translated from Danish, Swedish, Norwegian, Finnish, SMI languages, Icelandic, and other Nordic languages. Credit will be granted for only one of SCAN 334 or NORD 334. Equivalency: SCAN 334.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
NORD_V 337-201	NORD_V	337	201	Nordic Cinema	W2	Examine the technical, narrative, and aesthetic features of Northern European films. Credit will be granted for only one of SCAN 337 or NORD 337. Equivalency: SCAN 337.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.	
NORD_V 339-201	NORD_V	339	201	Norse Mythology	W2	The pagan mythology of pre-Christian Scandinavia and its later appropriations and recycling.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
NORD_V 340-201	NORD_V	340	201	Sámi Histories and Cultures	W2	Cultural history of the Sámi peoples, the Indigenous peoples of northern Norway, Sweden, Finland and Russia's Kola Peninsula. Focus on traditional culture, colonization, and decolonization.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
NORD_V 341-101	NORD_V	341	101	Indigenous Activism	W1	Examination of contemporary political and social conflicts in the circumpolar north, focusing on ways Indigenous people have used art, performance and activism as a tool for resistance and decolonization.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
NORD_V 414-201	NORD_V	414	201	Topics in Northern European Cultural Studies	W2	Selected topics for advanced study, such as activism, ethnicity, gender, identity, migration, sexuality, and justice across Northern Europe. Credit will be granted for only one of SCAN 414 or NORD 414. Equivalency: SCAN 414.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.	
NRES_V 100-101	NRES_V	100	101	Pursuing Innovative Solutions to Big Questions	W1	Multidisciplinary approaches to solving pressing challenges in natural resources. Diversifying perspectives of natural resources and land stewardship. Skill-building in written and verbal communication, collaboration, and critical thinking.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
NRES_V 103-101	NRES_V	103	101	Pathways in Natural Resources	W1	Exploration of disciplines within natural resources, including majors in the B.Sc. in Natural Resources degree, potential career pathways, and post-graduate education options.	In Person Learning	Arranged	Arranged	

NRES_V 103-201	NRES_V	103	201	Pathways in Natural Resources	W2	Exploration of disciplines within natural resources, including majors in the B.Sc. in Natural Resources degree, potential career pathways, and post-graduate education options.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
NRES_V 110-001	NRES_V	110	001	Land One: First-year Integrative Seminar	W1-2	Current issues and cases in Forestry and Land and Food Systems are examined with a focus on integration of first-year subjects and exposure to both First Nations and Western perspectives. Credit will be granted for only one of NRES 110 or FRST 110. This course is not eligible for Credit/D/Fail grading. [1-1-1] Equivalency: LFS 110, FRST 110	In Person Learning	Arranged	Arranged
NRES_V 150-101	NRES_V	150	101	Scholarly Writing and Argumentation in Natural Resources	W1	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	Hybrid Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
NRES_V 150-102	NRES_V	150	102	Scholarly Writing and Argumentation in Natural Resources	W1	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	Hybrid Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
NRES_V 150-103	NRES_V	150	103	Scholarly Writing and Argumentation in Natural Resources	W1	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	Hybrid Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
NRES_V 150-104	NRES_V	150	104	Scholarly Writing and Argumentation in Natural Resources	W1	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NRES_V 150-201	NRES_V	150	201	Scholarly Writing and Argumentation in Natural Resources	W2	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
NRES_V 150-202	NRES_V	150	202	Scholarly Writing and Argumentation in Natural Resources	W2	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
NRES_V 150-203	NRES_V	150	203	Scholarly Writing and Argumentation in Natural Resources	W2	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
NRES_V 150-204	NRES_V	150	204	Scholarly Writing and Argumentation in Natural Resources	W2	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
NRES_V 150-205	NRES_V	150	205	Scholarly Writing and Argumentation in Natural Resources	W2	Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of NRES 150 or FRST 150 or LFS 150. This course is not eligible for Credit/D/Fail grading. [3-0-0] Equivalency: FRST 150, LFS 150	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
NRES_V 200-101	NRES_V	200	101	Forest Plant Biology I	W1	The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIOL 121. Equivalency: FRST 200	In Person Learning	Arranged	Arranged
NRES_V 201-101	NRES_V	201	101	Forest Ecology	W1	The structure and function of forest ecosystems, including: energetics; productivity; nutrient, carbon and water cycling; soils; the physical environment; population and community ecology; disturbance ecology; ecological succession; biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. [3-2-0] Corequisite: One of NRES 200, FRST 200. Equivalency: FRST 201	In Person Learning	Arranged	Arranged
NRES_V 210-201	NRES_V	210	201	Forest Plant Biology II	W2	The functional biology of trees and other forest plants in their environment, with an emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of NRES 200, FRST 200. Equivalency: FRST 210	In Person Learning	Arranged	Arranged
NRES_V 211-201	NRES_V	211	201	Forest Classification and Silvics	W2	Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimatic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of NRES 201, FRST 201. Equivalency: FRST 211	In Person Learning	Arranged	Arranged
NRES_V 225-101	NRES_V	225	101	Communications Strategies	W1	Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional-quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Three credits of first-year English. Equivalency: WOOD 225	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
NRES_V 225-102	NRES_V	225	102	Communications Strategies	W1	Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional-quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Three credits of first-year English. Equivalency: WOOD 225	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NRES_V 225-201	NRES_V	225	201	Communications Strategies	W2	Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional-quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Three credits of first-year English. Equivalency: WOOD 225	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.

NRES_V 225-202	NRES_V	225	202	Communications Strategies	W2	Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional-quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Three credits of first-year English. Equivalency: WOOD 225	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
NRES_V 225-203	NRES_V	225	203	Communications Strategies	W2	Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional-quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Three credits of first-year English. Equivalency: WOOD 225	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
NRES_V 231-101	NRES_V	231	101	Introduction to Biometrics	W1	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: FRST 231	In Person Learning	Arranged	Arranged
NRES_V 231-201	NRES_V	231	201	Introduction to Biometrics	W2	Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and tests for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> . Credit will be granted for only one of NRES 231 or FRST 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: FRST 231	In Person Learning	Arranged	Arranged
NRES_V 241-101	NRES_V	241	101	Introduction to Geomatics for Natural Resource Management	W1	Introduction to spatial thinking and principles of Geographic Information Systems (GIS) and remote sensing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Prerequisite: Second-year standing.	In Person Learning	Tue	3:30 p.m. - 5:30 p.m.
NRES_V 241-102	NRES_V	241	102	Introduction to Geomatics for Natural Resource Management	W1	Introduction to spatial thinking and principles of Geographic Information Systems (GIS) and remote sensing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Prerequisite: Second-year standing.	In Person Learning	Thu	5:00 p.m. - 7:00 p.m.
NRES_V 241-201	NRES_V	241	201	Introduction to Geomatics for Natural Resource Management	W2	Introduction to spatial thinking and principles of Geographic Information Systems (GIS) and remote sensing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Prerequisite: Second-year standing.	In Person Learning	Wed	4:00 p.m. - 6:00 p.m.
NRES_V 241-202	NRES_V	241	202	Introduction to Geomatics for Natural Resource Management	W2	Introduction to spatial thinking and principles of Geographic Information Systems (GIS) and remote sensing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Prerequisite: Second-year standing.	In Person Learning	Thu	4:00 p.m. - 6:00 p.m.
NRES_V 341-201	NRES_V	341	201	Intermediate Geomatics for Natural Resource Management	W2	Applications of remote sensing, image analysis, advanced spatial analysis and geoprocessing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Students may receive credit for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340	In Person Learning	Tue	4:00 p.m. - 6:00 p.m.
NRES_V 341-202	NRES_V	341	202	Intermediate Geomatics for Natural Resource Management	W2	Applications of remote sensing, image analysis, advanced spatial analysis and geoprocessing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Students may receive credit for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340	In Person Learning	Fri	4:00 p.m. - 6:00 p.m.
NRES_V 443-201	NRES_V	443	201	Remote Sensing for Ecosystem Management	W2	Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 443 or FRST 443. [2-2-0] Equivalency: FRST 443, GEOS 375	In Person Learning	Arranged	Arranged
NRSC_V 500-001	NRSC_V	500	001	Neuroscience I	W1	Comprehensive multidisciplinary course with lectures, seminars, and laboratory demonstrations encompassing molecular, cellular, systemic, and behavioural approaches to the study of nervous systems. Emphasis is on the physiology, pharmacology, and biochemistry of excitable cells and their synaptic interactions. Permission of Neuroscience Chair is required. Normally to be taken in conjunction with NRSC 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NRSC_V 501-001	NRSC_V	501	001	Neuroscience II	W2	Continuation of NRSC 500 with emphasis on the integrative functions of the brain, behaviour, and selected neural disorders. Permission of Neuroscience Chair is required. Normally to be taken in conjunction with NRSC 500. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NRSC_V 510-A_101	NRSC_V	510	A	A_101	W1	Lectures or projects on special topics in neuroscience related to neurodata and neuroimaging. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
NRSC_V 510-B_101	NRSC_V	510	B	B_101	W1	Lectures or projects on special topics in neuroscience related to neurodata and neuroimaging. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
NRSC_V 510-C_101	NRSC_V	510	C	C_101	W1	Lectures or projects on special topics in neuroscience related to neurodata and neuroimaging. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:30 p.m. - 2:00 p.m.
NRSC_V 549-001	NRSC_V	549	001	Master's Thesis	W1-2	Pass/Fail. Restricted to students in the MSc in Neuroscience. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NRSC_V 549-002	NRSC_V	549	002	Master's Thesis	W1	Pass/Fail. Restricted to students in the MSc in Neuroscience. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NRSC_V 549-003	NRSC_V	549	003	Master's Thesis	W2	Pass/Fail. Restricted to students in the MSc in Neuroscience. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NRSC_V 550-101	NRSC_V	550	101	Action Potential and Synaptic Neuroscience	W1	Basic mechanisms controlling the resting membrane potential, excitability, and synaptic transmission of cells within the brain. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Fri	8:30 a.m. - 10:30 a.m.

NRSC_V 551-101	NRSC_V	551	101	Molecular and Developmental Neuroscience	W1	Introduction to concepts and applications of molecular/cell biology and genomics in neuroscience, with an emphasis on the development of the nervous system. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
NRSC_V 552-101	NRSC_V	552	101	Sensorimotor Systems	W2	Basic systems-level mechanisms underlying sensory transduction, perception and movement. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
NRSC_V 553-101	NRSC_V	553	101	Cognition and Emotion	W2	Systems-level mechanisms underlying cognitive and affective behaviours in health and disease. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
NRSC_V 649-001	NRSC_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
NRSC_V 649-002	NRSC_V	649	002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
NRSC_V 649-003	NRSC_V	649	003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
NSCI_V 140-101	NSCI_V	140	101	The Learning Brain	W1	Applications and implications of neuroscience for society and the individual, with a focus on neuroplasticity and neuroeducation. [3-0-0]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NSCI_V 140-201	NSCI_V	140	201	The Learning Brain	W2	Applications and implications of neuroscience for society and the individual, with a focus on neuroplasticity and neuroeducation. [3-0-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
NSCI_V 200-001	NSCI_V	200	001	Fundamentals of Cellular and Molecular Neuroscience	W1	Introduction to the field of neuroscience in general, and the fields of cellular and molecular neuroscience in particular, with emphasis on neuroanatomy, neurophysiology, and neuropharmacology. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Second-year standing in the Neuroscience specialization.	In Person Learning	Mon Wed	12:00 p.m. - 2:00 p.m.
NSCI_V 201-001	NSCI_V	201	001	Fundamentals of Behavioural and Cognitive Neuroscience	W2	Emphasis on the relationship between behaviour or cognition and nervous system function. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: NSCI 200.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NSCI_V 300-101	NSCI_V	300	101	Laboratory Techniques for the Neurosciences	W1	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
NSCI_V 300-201	NSCI_V	300	201	Laboratory Techniques for the Neurosciences	W2	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
NSCI_V 300-L01	NSCI_V	300	L01	Laboratory Techniques for the Neurosciences	W1	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.
NSCI_V 300-L02	NSCI_V	300	L02	Laboratory Techniques for the Neurosciences	W1	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
NSCI_V 300-L03	NSCI_V	300	L03	Laboratory Techniques for the Neurosciences	W1	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
NSCI_V 300-L21	NSCI_V	300	L21	Laboratory Techniques for the Neurosciences	W2	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.
NSCI_V 300-L22	NSCI_V	300	L22	Laboratory Techniques for the Neurosciences	W2	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
NSCI_V 300-L23	NSCI_V	300	L23	Laboratory Techniques for the Neurosciences	W2	Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0] Prerequisite: Third-year status in the neuroscience specialization.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
NSCI_V 301-001	NSCI_V	301	001	Neuroscience, Ethics, and Society	W2	Ethical issues associated with neuroscience, and the impact of neuroscience on society. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of NSCI 201, PSYC 277.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
NSCI_V 302-001	NSCI_V	302	001	Mechanisms of Nervous System Dysfunction and Recovery	W1	Physiological mechanisms of neurological and psychiatric disorders and recovery from those disorders. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: NSCI 201.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
NSCI_V 303-001	NSCI_V	303	001	Foundations of Computational Neuroscience	W2	Foundations of computational neuroscience: neural modelling, simple neural networks, models of Hebbian learning, models of learning, clustering and classification. [3-0-0] Prerequisite: NSCI 201 and one of DSCI 100, CPSC 103, CPSC 110 and one of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180, MATH 184.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
NSCI_V 311-001	NSCI_V	311	001	Advanced Neuroanatomy	W1	Detailed coverage of neuroanatomy, with applications This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: NSCI 200.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.

NSCI_V 398-510	NSCI_V	398		510	Cooperative Work Placement I	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Summer Session after third year. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: Co-op workshops, and third-year standing in the neuroscience specialization.	In Person Learning	Arranged	Arranged
NSCI_V 398-610	NSCI_V	398		610	Cooperative Work Placement I	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Summer Session after third year. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: Co-op workshops, and third-year standing in the neuroscience specialization.	In Person Learning	Arranged	Arranged
NSCI_V 399-510	NSCI_V	399		510	Cooperative Work Placement II	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Term 1 of the 4th Year Winter Session. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: NSCI 398.	In Person Learning	Arranged	Arranged
NSCI_V 399-610	NSCI_V	399		610	Cooperative Work Placement II	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Term 1 of the 4th Year Winter Session. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: NSCI 398.	In Person Learning	Arranged	Arranged
NSCI_V 400-001	NSCI_V	400		001	Neuroscience Capstone	W1-2	A capstone course to provide students with a rigorous neuroscience research experience under the supervision of one or more faculty members. Integrated support and feedback is provided by peers and faculty. This course is not eligible for Credit/D/Fail grading. [3-0-0; 3-0-0] Prerequisite: Restricted to students in the neuroscience specialization.	In Person Learning	Arranged	Arranged
NSCI_V 448-A_101	NSCI_V	448	A	A_101	Directed Studies in Neuroscience	W1	Directed investigation of a neuroscience research question requiring a report of the findings. This course is not eligible for Credit/D/Fail grading. Prerequisite: At least a 70% average in the preceding 30 credits, permission of the supervisor, and permission of the director of the neuroscience specialization.	In Person Learning	Arranged	Arranged
NSCI_V 448-A_201	NSCI_V	448	A	A_201	Directed Studies in Neuroscience	W2	Directed investigation of a neuroscience research question requiring a report of the findings. This course is not eligible for Credit/D/Fail grading. Prerequisite: At least a 70% average in the preceding 30 credits, permission of the supervisor, and permission of the director of the neuroscience specialization.	In Person Learning	Arranged	Arranged
NSCI_V 448-D_001	NSCI_V	448	D	D_001	Directed Studies in Neuroscience	W1-2	Directed investigation of a neuroscience research question requiring a report of the findings. This course is not eligible for Credit/D/Fail grading. Prerequisite: At least a 70% average in the preceding 30 credits, permission of the supervisor, and permission of the director of the neuroscience specialization.	In Person Learning	Arranged	Arranged
NSCI_V 487-A_001	NSCI_V	487	A	A_001	Advanced Topics in Cellular and Molecular Neuroscience	W2	Selected topics in Cellular and Molecular Neuroscience. May be taken more than once for credit with permission of the program. Prerequisite: Third-year standing in a Neuroscience specialization.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
NSCI_V 498-510	NSCI_V	498		510	Cooperative Work Placement III	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Term 2 of the 4th Year Winter Session. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: NSCI 399.	In Person Learning	Arranged	Arranged
NSCI_V 498-610	NSCI_V	498		610	Cooperative Work Placement III	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Term 2 of the 4th Year Winter Session. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: NSCI 399.	In Person Learning	Arranged	Arranged
NSCI_V 499-510	NSCI_V	499		510	Cooperative Work Placement IV	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in the Summer Session after 4th year. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: NSCI 498.	In Person Learning	Arranged	Arranged
NSCI_V 499-610	NSCI_V	499		610	Cooperative Work Placement IV	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in the Summer Session after 4th year. Work term report required. Restricted to students admitted to the Co-op Program in Neuroscience. This course is not eligible for Credit/D/Fail grading. Prerequisite: NSCI 498.	In Person Learning	Arranged	Arranged
NURS_V 180-001	NURS_V	180		001	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
NURS_V 180-002	NURS_V	180		002	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
NURS_V 180-101	NURS_V	180		101	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
NURS_V 180-102	NURS_V	180		102	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
NURS_V 180-103	NURS_V	180		103	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NURS_V 180-104	NURS_V	180		104	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Tue Thu	4:30 p.m. - 6:00 p.m.
NURS_V 180-105	NURS_V	180		105	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.

NURS_V 180-106	NURS_V	180	106	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
NURS_V 180-107	NURS_V	180	107	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NURS_V 180-108	NURS_V	180	108	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Wed Fri	4:30 p.m. - 6:00 p.m.
NURS_V 180-109	NURS_V	180	109	Stress and Strategies to Promote Well Being	W1	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Tue Thu	4:30 p.m. - 6:00 p.m.
NURS_V 180-201	NURS_V	180	201	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
NURS_V 180-202	NURS_V	180	202	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NURS_V 180-203	NURS_V	180	203	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.
NURS_V 180-204	NURS_V	180	204	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Tue Thu	4:30 p.m. - 6:00 p.m.
NURS_V 180-205	NURS_V	180	205	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
NURS_V 180-206	NURS_V	180	206	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NURS_V 180-207	NURS_V	180	207	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
NURS_V 180-208	NURS_V	180	208	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Wed Fri	4:30 p.m. - 6:00 p.m.
NURS_V 180-209	NURS_V	180	209	Stress and Strategies to Promote Well Being	W2	Introduction to foundational knowledge related to stress, stressors, resilience, social support, and strategies to foster physical, mental, emotional, and spiritual health. Open to all students interested in learning about managing and navigating the stressors of student life.	Online Learning	Mon	7:00 a.m. - 7:30 a.m.
NURS_V 270-001	NURS_V	270	001	Diverse Perspectives on Aging	W1	Examines aging experience from interdisciplinary, equity, diversity, inclusion and Indigeneity (EDI-1) (race, sex, gender, disability), and systems perspectives. Topics include older adult health and illness, age friendly communities, ageism and stigma, and end of life issues.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
NURS_V 270-002	NURS_V	270	002	Diverse Perspectives on Aging	W2	Examines aging experience from interdisciplinary, equity, diversity, inclusion and Indigeneity (EDI-1) (race, sex, gender, disability), and systems perspectives. Topics include older adult health and illness, age friendly communities, ageism and stigma, and end of life issues.	In Person Learning	Mon Wed	4:30 p.m. - 6:00 p.m.
NURS_V 280-001	NURS_V	280	001	Human Sexual Health	W1	Beliefs, behaviours, and expressions of human sexuality and the link to health for students from any program. How sexuality is discussed and practiced from various perspectives, and strategies to promote healthy sexual expression and sexual health.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
NURS_V 280-002	NURS_V	280	002	Human Sexual Health	W2	Beliefs, behaviours, and expressions of human sexuality and the link to health for students from any program. How sexuality is discussed and practiced from various perspectives, and strategies to promote healthy sexual expression and sexual health.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
NURS_V 280-101	NURS_V	280	101	Human Sexual Health	W1	Beliefs, behaviours, and expressions of human sexuality and the link to health for students from any program. How sexuality is discussed and practiced from various perspectives, and strategies to promote healthy sexual expression and sexual health.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NURS_V 280-102	NURS_V	280	102	Human Sexual Health	W1	Beliefs, behaviours, and expressions of human sexuality and the link to health for students from any program. How sexuality is discussed and practiced from various perspectives, and strategies to promote healthy sexual expression and sexual health.	Online Learning	Arranged	Arranged
NURS_V 280-201	NURS_V	280	201	Human Sexual Health	W2	Beliefs, behaviours, and expressions of human sexuality and the link to health for students from any program. How sexuality is discussed and practiced from various perspectives, and strategies to promote healthy sexual expression and sexual health.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
NURS_V 280-202	NURS_V	280	202	Human Sexual Health	W2	Beliefs, behaviours, and expressions of human sexuality and the link to health for students from any program. How sexuality is discussed and practiced from various perspectives, and strategies to promote healthy sexual expression and sexual health.	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
NURS_V 290-001	NURS_V	290	001	Health Impacts of Climate Change	W1	Human health impacts of the current and projected environmental crisis; study of key concepts and ideas to prepare for the future to promote wellbeing of individuals, communities and populations.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
NURS_V 290-002	NURS_V	290	002	Health Impacts of Climate Change	W2	Human health impacts of the current and projected environmental crisis; study of key concepts and ideas to prepare for the future to promote wellbeing of individuals, communities and populations.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.

NURS_V 300-001	NURS_V	300	001	Theoretical and Professional Foundations for Nursing Practice	W1	Introduction to knowledge fundamental to the discipline and practice of nursing. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
NURS_V 301-001	NURS_V	301	001	Theoretical Perspectives in Nursing: Primary Health Care	W1	Analysis and application of theories, concepts, evidence and competencies guiding professional nursing practice in the context of primary health care. This course is not eligible for Credit/D/Fail grading. Prerequisite: Five of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 362 and one of NURS 323, NURS 401.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 301-002	NURS_V	301	002	Theoretical Perspectives in Nursing: Primary Health Care	W2	Analysis and application of theories, concepts, evidence and competencies guiding professional nursing practice in the context of primary health care. This course is not eligible for Credit/D/Fail grading. Prerequisite: Five of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 362 and one of NURS 323, NURS 401.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 303-001	NURS_V	303	001	Theoretical Perspectives in Nursing: People Living with Mental Health Challenges and Their Families	W1	Theory informing a life course perspective on nursing practice with people living with mental health challenges and their families is introduced. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 363 and one of NURS 323, NURS 401.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
NURS_V 303-002	NURS_V	303	002	Theoretical Perspectives in Nursing: People Living with Mental Health Challenges and Their Families	W2	Theory informing a life course perspective on nursing practice with people living with mental health challenges and their families is introduced. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 363 and one of NURS 323, NURS 401.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
NURS_V 310-001	NURS_V	310	001	Basic Principles of Pharmacology for Nursing Practice	W1	Basic principles of pharmacology and the basic structure and function of each body system will be explored to demonstrate how drug interactions occur within systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
NURS_V 321-001	NURS_V	321	001	Foundational Skills and Competencies for Clinical Practice I	W1	Skills and competencies for clinical practice using a variety of modalities and learning activities. This course is not eligible for Credit/D/Fail grading. Corequisite: All of NURS 300, NURS 310, NURS 330, NURS 352, NURS 360.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
NURS_V 321-002	NURS_V	321	002	Foundational Skills and Competencies for Clinical Practice I	W1	Skills and competencies for clinical practice using a variety of modalities and learning activities. This course is not eligible for Credit/D/Fail grading. Corequisite: All of NURS 300, NURS 310, NURS 330, NURS 352, NURS 360.	In Person Learning	Mon	7:00 a.m. - 7:30 a.m.
NURS_V 322-002	NURS_V	322	002	Foundational Skills and Competencies for Clinical Practice II	W2	Clinical practice through a variety of modalities and learning activities in the laboratory environment. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360. Corequisite: All of NURS 331, NURS 361.	In Person Learning	Wed Thu Fri	8:00 a.m. - 11:00 a.m.
NURS_V 330-001	NURS_V	330	001	Theoretical Perspectives in Nursing: Adults/Older Adults and their Families	W1	Fundamental theories, concepts, evidence, and competencies pertaining to nursing practice with adults/older adults and their families. Corequisite: All of NURS 300, NURS 310, NURS 321, NURS 352, NURS 360.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
NURS_V 344-002	NURS_V	344	002	Critical Inquiry and Leadership Synthesis	W2	Evidence is examined and synthesized to understand and identify theoretical insights to address a leadership challenge in professional practice. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 350, NURS 351, NURS 352, NURS 360.	In Person Learning	Mon Fri	1:00 p.m. - 4:00 p.m.
NURS_V 345-001	NURS_V	345	001	Theoretical Perspectives in Nursing: Childbearing Individuals and their Families	W1	Analysis and application of theories, concepts, evidence and competencies guiding professional nursing practice with childbearing individuals and families during the transition to parenthood in a variety of practice settings and contexts. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 365 and one of NURS 323, NURS 401.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 345-002	NURS_V	345	002	Theoretical Perspectives in Nursing: Childbearing Individuals and their Families	W2	Analysis and application of theories, concepts, evidence and competencies guiding professional nursing practice with childbearing individuals and families during the transition to parenthood in a variety of practice settings and contexts. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 365 and one of NURS 323, NURS 401.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 346-001	NURS_V	346	001	Theoretical Perspectives in Nursing: Infants, Children, Youth and their Families	W1	Analysis and application of theories, concepts, evidence and competencies guiding professional nursing practice with infants, children, youth and their families in a variety of practice settings and contexts. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 366 and one of NURS 323, NURS 401.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
NURS_V 346-002	NURS_V	346	002	Theoretical Perspectives in Nursing: Infants, Children, Youth and their Families	W2	Analysis and application of theories, concepts, evidence and competencies guiding professional nursing practice with infants, children, youth and their families in a variety of practice settings and contexts. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 366 and one of NURS 323, NURS 401.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
NURS_V 350-002	NURS_V	350	002	Critical Inquiry and Research in Health Care Practice	W2	The significance of critical inquiry and research in nursing and health care, and the fundamental concepts and processes pertaining to scientific inquiry, evidence-based practice, and research utilization in nursing. Students who take NURS 350 cannot earn credit for NURS 305, NURS 339 or NURS 342. This course is eligible for Cr/F for 19W2 only. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
NURS_V 351-002	NURS_V	351	002	Leadership, Policy, and Informatics	W1	The enactment of nursing leadership and policy within different health sectors and jurisdictions and the relevance and application of informatics competencies to the delivery of nursing care. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360.	In Person Learning	Tue	1:30 p.m. - 4:30 p.m.
NURS_V 352-001	NURS_V	352	001	Relational and Ethical Nursing Practice	W1	Relational theoretical underpinnings of nursing practice and healthcare ethics are critically examined. This course is not eligible for Credit/D/Fail grading. Corequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 360.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
NURS_V 353-001	NURS_V	353	001	Promoting the Health of Indigenous People	W2	Foundations to contribute to supporting and providing high quality, ethical, respectful and culturally safe health care in partnership with Indigenous people in Canada and around the globe. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
NURS_V 353-002	NURS_V	353	002	Promoting the Health of Indigenous People	W2	Foundations to contribute to supporting and providing high quality, ethical, respectful and culturally safe health care in partnership with Indigenous people in Canada and around the globe. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.

NURS_V 354-001	NURS_V	354	001	Theoretical Perspectives in Nursing: Complexities in Seniors Care	W1	Research and clinical practice innovations in the care of Seniors and their families (e.g., philosophies of care; age-friendly initiatives) and provide strategies for improving their health through the purposeful integration of such practices in clinical settings. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360.	In Person Learning	Arranged	Arranged
NURS_V 360-001	NURS_V	360	001	Nursing Practice with Adults/Older Adults and their Families	W1	Nursing practice to integrate and consolidate professional nursing knowledge, skills, and competencies in care of adults/older adults with stable/expected health care challenges and their families. Practice learning may occur in settings like community, home, inpatient, clinics and/or simulated learning. This course is not eligible for Credit/D/Fail grading. Corequisite: All of NURS 300, NURS 310, NURS 321, NURS 330, NURS 352.	In Person Learning	Tue Wed	9:30 p.m. - 10:00 p.m.
NURS_V 362-001	NURS_V	362	001	Nursing Practice in Primary Health Care Contexts	W1	Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the context of primary health care. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 301 and one of NURS 323, NURS 401.	In Person Learning	Wed Thu Fri	8:00 a.m. - 8:30 a.m.
NURS_V 362-002	NURS_V	362	002	Nursing Practice in Primary Health Care Contexts	W2	Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the context of primary health care. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 301 and one of NURS 323, NURS 401.	In Person Learning	Arranged	Arranged
NURS_V 363-001	NURS_V	363	001	Nursing Practice with People Living with Mental Health Challenges and Their Families	W1	Students will apply theory and concepts from a life course perspective in provision of nursing care to persons living with mental health challenges and their families. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 303 and one of NURS 323, NURS 401.	In Person Learning	Wed Thu Fri	8:00 a.m. - 8:30 a.m.
NURS_V 363-002	NURS_V	363	002	Nursing Practice with People Living with Mental Health Challenges and Their Families	W2	Students will apply theory and concepts from a life course perspective in provision of nursing care to persons living with mental health challenges and their families. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 303 and one of NURS 323, NURS 401.	In Person Learning	Wed Thu Fri	8:00 a.m. - 8:30 a.m.
NURS_V 365-001	NURS_V	365	001	Nursing Practice with Childbearing Individuals and Families	W1	Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the care of childbearing individuals, infants, and their families. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 345 and one of NURS 323, NURS 401.	In Person Learning	Wed Thu Fri	9:30 p.m. - 10:00 p.m.
NURS_V 365-002	NURS_V	365	002	Nursing Practice with Childbearing Individuals and Families	W2	Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the care of childbearing individuals, infants, and their families. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 345 and one of NURS 323, NURS 401.	In Person Learning	Arranged	Arranged
NURS_V 366-001	NURS_V	366	001	Nursing Practice with Infants, Children, Youth and their Families: Practicum	W1	Nursing practice to integrate and consolidate professional nursing knowledge, skills and competencies in the care of infants, children, youth and their families. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352. Corequisite: NURS 346 and one of NURS 323, NURS 401.	In Person Learning	Wed Thu Fri	9:30 p.m. - 10:00 p.m.
NURS_V 366-002	NURS_V	366	002	Nursing Practice with Infants, Children, Youth and their Families: Practicum	W2	Nursing practice to integrate and consolidate professional nursing knowledge, skills and competencies in the care of infants, children, youth and their families. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352. Corequisite: NURS 346 and one of NURS 323, NURS 401.	In Person Learning	Wed Thu Fri	9:30 p.m. - 10:00 p.m.
NURS_V 401-001	NURS_V	401	001	Foundational Skills and Competencies for Clinical Practice IV	W1	Students are prepared with the skills and competencies for clinical practice in simulated acute and community settings through a variety of modalities and learning activities. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 321, NURS 322, NURS 323, NURS 330, NURS 352, NURS 360. Corequisite: Either (a) all of NURS 345, NURS 365, NURS 346, NURS 366 or (b) all of NURS 303, NURS 363, NURS 301, NURS 362.	In Person Learning	Arranged	Arranged
NURS_V 402-002	NURS_V	402	002	Foundational Skills and Competencies for Clinical Practice V	W2	Students are guided to consolidate skills and competencies for clinical practice through a variety of modalities and learning activities. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 321, NURS 322, NURS 323, NURS 350, NURS 351, NURS 352, NURS 353, NURS 360, NURS 361, NURS 362, NURS 363, NURS 365, NURS 366, NURS 401. Corequisite: NURS 430.	In Person Learning	Arranged	Arranged
NURS_V 427-002	NURS_V	427	002	Consolidated Practice Experience	W2	Nursing practice to consolidate nursing knowledge, theory, evidence, and practice, and facilitate the transition to professional practice. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 344, NURS 402, NURS 430.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
NURS_V 430-002	NURS_V	430	002	Theoretical Perspectives in Nursing: Special Topics in Complex and Urgent Health Challenges across Settings/Populations	W2	Consolidation of fundamental theories, concepts, evidence, and competencies pertaining to nursing practice across the life-span and care context. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 301, NURS 303, NURS 310, NURS 321, NURS 322, NURS 323, NURS 330, NURS 331, NURS 345, NURS 346, NURS 350, NURS 351, NURS 352, NURS 353, NURS 354, NURS 360, NURS 361, NURS 362, NURS 363, NURS 365, NURS 366, NURS 401. Corequisite: All of NURS 344, NURS 402.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
NURS_V 502-002	NURS_V	502	002	Ethics and Politics of Nursing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NURS_V 502-201	NURS_V	502	201	Ethics and Politics of Nursing	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
NURS_V 504-001	NURS_V	504	001	Research and Evidence-Based Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 504-002	NURS_V	504	002	Research and Evidence-Based Practice	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
NURS_V 504-101	NURS_V	504	101	Research and Evidence-Based Practice	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	1:00 p.m. - 4:00 p.m.
NURS_V 504-201	NURS_V	504	201	Research and Evidence-Based Practice	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.

NURS_V 506-001	NURS_V	506	001	Health Promotion in Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
NURS_V 506-101	NURS_V	506	101	Health Promotion in Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
NURS_V 507-002	NURS_V	507	002	Pharmacology and Therapeutics in Primary Care	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
NURS_V 507-201	NURS_V	507	201	Pharmacology and Therapeutics in Primary Care	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
NURS_V 508-001	NURS_V	508	001	Pathophysiological Processes for Nurse Practitioners	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
NURS_V 508-101	NURS_V	508	101	Pathophysiological Processes for Nurse Practitioners	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
NURS_V 509-002	NURS_V	509	002	Clinical Procedures in Primary Care Settings	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
NURS_V 509-201	NURS_V	509	201	Clinical Procedures in Primary Care Settings	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
NURS_V 510-001	NURS_V	510	001	Advanced Health Assessment Across the Life Span	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
NURS_V 510-101	NURS_V	510	101	Advanced Health Assessment Across the Life Span	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
NURS_V 510-102	NURS_V	510	102	Advanced Health Assessment Across the Life Span	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 3:00 p.m.
NURS_V 510-103	NURS_V	510	103	Advanced Health Assessment Across the Life Span	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
NURS_V 511-001	NURS_V	511	001	Theoretical Foundations of Nursing Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 511-101	NURS_V	511	101	Theoretical Foundations of Nursing Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
NURS_V 511-102	NURS_V	511	102	Theoretical Foundations of Nursing Practice	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 511-103	NURS_V	511	103	Theoretical Foundations of Nursing Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
NURS_V 512-001	NURS_V	512	001	Leadership in Nursing and Health	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
NURS_V 520-001	NURS_V	520	001	Administrative Leadership in Nursing	W1	Study of organizational behaviour, management methods and administrative processes in health care. This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 512. Corequisite: NURS 511.	Online Learning	Wed	1:00 p.m. - 4:00 p.m.
NURS_V 530-002	NURS_V	530	002	Advanced Practice in Nursing	W2	Study of advanced practice nursing models, their development and implementation with a changing health care system. This course is not eligible for Credit/D/Fail grading. Corequisite: NURS 511.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
NURS_V 531-002	NURS_V	531	002	Theoretical Foundations of Clinical Education	W2	Theories of learning and their implications for the design of clinical learning experiences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
NURS_V 535-001	NURS_V	535	001	Design of Clinical Informatics Solutions	W1	Fundamental theories, concepts, and processes in the fields of software design in healthcare. Restricted to students in the Graduate Certificate in Clinical Informatics program. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
NURS_V 536-002	NURS_V	536	002	Planning and Implementation in Clinical Informatics	W2	Introduction to and application of organisational considerations for planning and implementing clinical informatics solutions. Restricted to students in the Graduate Certificate in Clinical Informatics program. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
NURS_V 541-001	NURS_V	541	001	Clinical Nursing Education	W1	Study of the theory and practice of clinical nursing education. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of NURS 540, NURS 531. Or be enrolled in the MHLP program. Corequisite: NURS 511. Or be enrolled in the MHLP program.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.

NURS_V 542-002	NURS_V	542	002	Social Epidemiology: Special Populations	W2	Trends and social and institutional policies and practices that influence the health and illness profiles of particular population groups; trends in the social organization of service delivery for their impact on health. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.	
NURS_V 548-001	NURS_V	548	001	Qualitative Methods and Analysis	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 552. Corequisite: NURS 511.	In Person Learning	Arranged	Arranged	
NURS_V 549-001	NURS_V	549	001	Quantitative Research Methods and Analytic Strategies in Nursing and Health Sciences	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 552. Corequisite: NURS 511.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.	
NURS_V 552-002	NURS_V	552	002	Methods in Nursing Science.	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 504. Corequisite: NURS 511.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.	
NURS_V 552-201	NURS_V	552	201	Methods in Nursing Science.	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 504. Corequisite: NURS 511.	Online Learning	Tue	9:00 a.m. - 12:00 p.m.	
NURS_V 554-002	NURS_V	554	002	Advanced Research Methods	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 580, NURS 548, NURS 549.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
NURS_V 560-001	NURS_V	560	001	The Politics of Health Policy	W1	This course is not eligible for Credit/D/Fail grading. Corequisite: NURS 511. Or be enrolled in the MHP program.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
NURS_V 571-001	NURS_V	571	001	Primary Care II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.	
NURS_V 572-002	NURS_V	572	002	PRIMARY CARE III	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.	
NURS_V 576-001	NURS_V	576	001	Topics in Social and Environmental Planning to Foster Health of Populations	W1	Characteristics of social and built environments for their impact on the health of populations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.	
NURS_V 577-A_001	NURS_V	577	A	A_001	Graduate Practicum in Nursing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NURS_V 577-A_002	NURS_V	577	A	A_002	Graduate Practicum in Nursing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NURS_V 577-B_001	NURS_V	577	B	B_001	Graduate Practicum in Nursing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NURS_V 580-001	NURS_V	580	001	The Philosophy of Evidence	W1	Students not enrolled in the doctoral program require permission of instructor. This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
NURS_V 581-002	NURS_V	581	002	Leadership in Knowledge Application and Translation	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 580.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.	
NURS_V 585-S_002	NURS_V	585	S	S_002	Special Topics in Nursing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
NURS_V 586-H_002	NURS_V	586	H	H_002	Specialized Domains of Nursing Practice	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
NURS_V 586-J_002	NURS_V	586	J	J_002	Specialized Domains of Nursing Practice	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	12:30 p.m. - 3:30 p.m.
NURS_V 590-A_001	NURS_V	590	A	A_001	Directed Studies in Nursing	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 590-A_101	NURS_V	590	A	A_101	Directed Studies in Nursing	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 590-A_202	NURS_V	590	A	A_202	Directed Studies in Nursing	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 590-S_001	NURS_V	590	S	S_001	Directed Studies in Nursing	W1-2	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 590-S_101	NURS_V	590	S	S_101	Directed Studies in Nursing	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

NURS_V 590-S_102	NURS_V	590	S	S_102	Directed Studies in Nursing	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 591-002	NURS_V	591		002	Ethical and Professional Issues in NP Practice	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
NURS_V 596-001	NURS_V	596		001	Culminating Project	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NURS_V 596-101	NURS_V	596		101	Culminating Project	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NURS_V 596-201	NURS_V	596		201	Culminating Project	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
NURS_V 599-001	NURS_V	599		001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. Corequisite: NURS 511.	In Person Learning	Arranged	Arranged
NURS_V 599-101	NURS_V	599		101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. Corequisite: NURS 511.	In Person Learning	Arranged	Arranged
NURS_V 599-202	NURS_V	599		202	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. Corequisite: NURS 511.	In Person Learning	Arranged	Arranged
NURS_V 601-001	NURS_V	601		001	Doctoral Seminar	W1-2		In Person Learning	Arranged	Arranged
NURS_V 601-101	NURS_V	601		101	Doctoral Seminar	W1		In Person Learning	Arranged	Arranged
NURS_V 601-201	NURS_V	601		201	Doctoral Seminar	W2		In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
NURS_V 690-A_001	NURS_V	690	A	A_001	Directed Studies in Nursing	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 690-A_101	NURS_V	690	A	A_101	Directed Studies in Nursing	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 690-A_202	NURS_V	690	A	A_202	Directed Studies in Nursing	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 690-C_001	NURS_V	690	C	C_001	Directed Studies in Nursing	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 690-C_101	NURS_V	690	C	C_101	Directed Studies in Nursing	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 690-C_202	NURS_V	690	C	C_202	Directed Studies in Nursing	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
NURS_V 699-001	NURS_V	699		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
NURS_V 699-101	NURS_V	699		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
NURS_V 699-202	NURS_V	699		202	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
OBST_V 502-001	OBST_V	502		001	Physiology of the Mother, Fetus and Newborn	W1	Functional development of the placenta and major organ systems in the fetal and newborn period in man and animals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
OBST_V 503-001	OBST_V	503		001	Fetal and Perinatal Metabolism	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Knowledge of fetal growth and development, physiology, pathology of labour.	In Person Learning	Arranged	Arranged
OBST_V 506-001	OBST_V	506		001	Seminars in Reproductive Biology	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

OBST_V 549-001	OBST_V	549	001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OBST_V 549-002	OBST_V	549	002	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OBST_V 549-003	OBST_V	549	003	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OBST_V 649-001	OBST_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
OBST_V 649-002	OBST_V	649	002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
OBST_V 649-003	OBST_V	649	003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
ONCO_V 502-001	ONCO_V	502	001	Concepts in Oncology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.
ONCO_V 510-001	ONCO_V	510	001	Seminars in Oncology	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
ONCO_V 510-101	ONCO_V	510	101	Seminars in Oncology	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
ONCO_V 510-102	ONCO_V	510	102	Seminars in Oncology	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 11:00 a.m.
ONCO_V 548-A_001	ONCO_V	548	A	A_001	Oncology Rotation	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged
ONCO_V 548-B_001	ONCO_V	548	B	B_001	Oncology Rotation	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged
ONCO_V 549-001	ONCO_V	549	001	Master of Science Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ONCO_V 549-002	ONCO_V	549	002	Master of Science Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ONCO_V 549-003	ONCO_V	549	003	Master of Science Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ONCO_V 649-001	ONCO_V	649	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
ONCO_V 649-002	ONCO_V	649	002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
ONCO_V 649-003	ONCO_V	649	003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
ORNT_V 400-002	ORNT_V	400	002	Orientation to Medical School and Profession	W1	A general introduction to the medical school including beliefs and values embedded within the curriculum. The overall curricular design and expectations regarding evaluation are discussed. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ORPA_V 508-001	ORPA_V	508	001	Advanced Orthopaedics I	W1-2	Selected topics in orthopaedic surgery and related basic sciences. Given in alternate years. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ORPA_V 509-001	ORPA_V	509	001	Advanced Orthopaedics II	W1-2	The second year of the above program which will be given in alternate years. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ORPA_V 715-001	ORPA_V	715	001	Orthopaedic Clinic	W1-2	Evaluation of new patients and diagnosis and treatment of appropriate diseases. Basic signs and clinical features are both stressed in the total management of the patient. Two hours per week in the Outpatient Department under supervision of an orthopaedics faculty member.	In Person Learning	Arranged	Arranged
ORPA_V 716-001	ORPA_V	716	001	Orthopaedic Bedside Clinic	W1-2	Evaluation of orthopaedic diseases and injuries in patients at bedside. A review of clinical features is correlated with relevant physiology and pathology.	In Person Learning	Arranged	Arranged

ORPA_V 717-001	ORPA_V	717	001	Orthopaedic Grand Rounds	W1-2	Formal presentations by the orthopaedic residents, fellows, faculty and guests. Subject matter includes the whole spectrum of orthopaedics.	In Person Learning	Arranged	Arranged
ORPA_V 718-001	ORPA_V	718	001	Rheumatology Conference	W1-2	Patients with a variety of rheumatological disorders are presented for discussion and evaluation in this combined conference, which rheumatologists and orthopaedic surgeons who have a special interest in reconstructive surgery attend. During each weekly two hour session, patients with difficult management problems are presented for clinical evaluation and discussion of medical and orthopaedic treatment.	In Person Learning	Arranged	Arranged
ORPA_V 719-001	ORPA_V	719	001	Orthopaedic Surgical Anatomy	W1-2	A course in clinical anatomy as applied to orthopaedics. A regional approach involving surgical dissections in cadavers. Each session lasts two hours. Emphasis is on surgical anatomical approach.	In Person Learning	Arranged	Arranged
ORPA_V 720-001	ORPA_V	720	001	Orthopaedic Basic Science Course	W1-2	Weekly lectures by orthopaedic faculty and guest faculty from other departments. Lecture topics include applied physiology, anatomy, and pathology as they relate to orthopaedic diseases.	In Person Learning	Arranged	Arranged
ORPA_V 721-001	ORPA_V	721	001	Orthopaedic Seminars	W1-2	A series of seminars is given weekly, and during each 2-hour session a topic in clinical orthopaedics is reviewed. The subject matter includes the whole spectrum of orthopaedics. One or more faculty members are in attendance at each seminar.	In Person Learning	Arranged	Arranged
ORPA_V 722-001	ORPA_V	722	001	Paediatric Orthopaedics	W1-2	Case presentation in paediatric orthopaedics, stressing history, physical findings and total management of the patient, including a review of paediatric fractures with x-rays.	In Person Learning	Arranged	Arranged
ORPA_V 723-001	ORPA_V	723	001	Orthopaedic Surgery	W1-2	The practical application of orthopaedics in the operating room with discussion of techniques of surgery, anatomy, pathology, pathophysiology and complications of diseases.	In Person Learning	Arranged	Arranged
ORPA_V 724-001	ORPA_V	724	001	Trauma Rounds	W1-2	Orthopaedic traumatology is reviewed, with emphasis being placed on applied basic science, surgical anatomy, diagnosis and definitive management. These sessions are supervised by a faculty member and are held weekly, each session lasting one hour.	In Person Learning	Arranged	Arranged
ORPA_V 725-001	ORPA_V	725	001	Bone Tumour Registry	W1-2	A review of musculoskeletal oncology and related problems with presentation of clinical and laboratory information, radiographs and pathological materials. One and one-half hours monthly.	In Person Learning	Arranged	Arranged
ORPA_V 904-001	ORPA_V	904	001	Seminar in Orthopaedics	W1-2	A series of 60 seminars in orthopaedics and traumatic surgery given over a two-year period: thirty sessions in each of the two years. One evening per week throughout the Winter Session. For post-graduate students proceeding to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada.	In Person Learning	Arranged	Arranged
OSOT_V 301-001	OSOT_V	301	001	Introduction to Human Occupation	W1	Explores human occupation, conceptualized as all activities people do based on need, obligation, or preference. As the core construct of the discipline of occupational science and practice of occupational therapy, human occupation is examined for its relation to personal and social determinants of health. [3-0-0]	In Person Learning	Arranged	Arranged
OSOT_V 511-001	OSOT_V	511	001	Fundamentals of Occupational Therapy: Theory, Conceptual Models and the Practice Process	W1	Fundamentals of occupational therapy, including values and beliefs, conceptual models, client-centred principles, and practice process frameworks are introduced. Professional reasoning is demonstrated through resolution of case-based client occupational issues. Critical appraisal of theory fosters nuanced understandings of occupation and health. This course is not eligible for Credit/D/Fail grading. [1-2-2]	In Person Learning	Arranged	Arranged
OSOT_V 513-001	OSOT_V	513	001	Health, Illness & Occupation	W1-2	Concepts and models of occupation, health, and illness are introduced and appraised. Narratives from persons with lived experience and interactive assignments are used for acquiring biopsychosocial information on health conditions that impact occupational performance across lifespan and diverse life experiences. This course is not eligible for Credit/D/Fail grading. [1-0-1.5]	In Person Learning	Arranged	Arranged
OSOT_V 515-001	OSOT_V	515	001	Occupation in Practice I: Foundation of Occupational Therapy Assessment and Intervention	W1	Labs, simulations and tutorials provide opportunities to practice evidenced based foundational skills, techniques and approaches in preparation for occupational therapy practice in the local and regional context. This course is not eligible for Credit/D/Fail grading. [0-3-3]	In Person Learning	Arranged	Arranged
OSOT_V 519-001	OSOT_V	519	001	Professional Development of the Occupational Therapist I	W1-2	Concepts of professionalism, reflexivity, cultural humility and collaboration are introduced to develop the skills of a self-directed, culturally safe, lifelong learner, who consciously uses theory, evidence and critical thinking skills to maintain, evaluate and improve their practice of occupational therapy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OSOT_V 525-001	OSOT_V	525	001	Occupation in Practice II: Advancing Theory, Assessment & Intervention	W2	Building on OSOT 511 and OSOT 515, complex skills and approaches to enable client occupational engagement are applied through workshops and labs. Biomechanical, psychosocial, neuro-rehabilitative and developmental frames of reference will inform professional reasoning as students work through the occupational therapy practice process. This course is not eligible for Credit/D/Fail grading. [2-3-3]	In Person Learning	Arranged	Arranged
OSOT_V 527-001	OSOT_V	527	001	Becoming an Evidence-Informed Occupational Therapy Practitioner	W2	Assumptions and principles of qualitative and quantitative research designs; elements of basic research designs for investigating and evaluating occupational performance and diverse issues relevant to occupational science and occupational therapy are introduced, emphasizing critical appraisal of occupational therapy research literature. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Arranged	Arranged
OSOT_V 528-001	OSOT_V	528	001	Occupational Therapy Practice: Fieldwork I	W2	Preparation for practice concepts to facilitate integration of knowledge and skills introduced in term 1 of the MOT program. Demonstration of emerging Occupational Therapy competencies for a total of 5 weeks of supervised fieldwork experience in affiliated agencies is required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OSOT_V 545-001	OSOT_V	545	001	Occupation in Practice III: Occupational Therapy Assessment and Intervention	W1-2	A 3-term course, builds upon year 1 to further develop professional reasoning skills, synthesize theory and practice approaches in occupational therapy, and provide opportunities to acquire assessment and intervention skills according to the competencies required to enter occupational therapy practice. This course is not eligible for Credit/D/Fail grading. [0-2-2]	In Person Learning	Arranged	Arranged
OSOT_V 547-001	OSOT_V	547	001	Developing Evidence for Occupational Therapy Practice	W1-2	Enhances knowledge of research (or program evaluation) process and provides hands-on experience to create, inform, and disseminate evidence relevant to occupational science or occupational therapy. This course is not eligible for Credit/D/Fail grading. [2-0-8]	In Person Learning	Arranged	Arranged
OSOT_V 549-001	OSOT_V	549	001	Professional Development of the Occupational Therapist II	W1-2	Professional identity, professionalism, and cultural humility are further explored. Knowledge is applied to develop self-directed, culturally safe, lifelong learners. Conscious use of theory, evidence and critical thinking will be utilized to maintain, evaluate and improve occupational therapy practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

OSOT_V 551-001	OSOT_V	551	001	Societal and Environmental Influences on Occupation and Occupational Therapy Practice	W2	Current legislative, socio-political, economic, cultural, and service delivery issues influencing occupational therapy practice are addressed. The structural, systemic, and contextual influences upon clients' health and occupations are also examined. This course is not eligible for Credit/D/Fail grading. [2-0-2]	In Person Learning	Arranged	Arranged
OSOT_V 553-001	OSOT_V	553	001	Innovations in Occupation: Developing and Evaluating Occupational Therapy Programs	W2	To address inequities and meet the occupational needs of diverse communities, students will learn, critique and apply program development principles. Program development principles include needs assessment, program design, budgeting and resource planning, marketing, program evaluation, and proposal writing and presentation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OSOT_V 558-001	OSOT_V	558	001	Occupational Therapy Practice: Fieldwork III	W2	Evidence of integration and synthesis of complex knowledge and skills provided throughout the MOT program to demonstrate Occupational Therapy advanced competencies for a total of 14 weeks of supervised fieldwork experience in affiliated health agencies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OSOT_V 558-002	OSOT_V	558	002	Occupational Therapy Practice: Fieldwork III	W2	Evidence of integration and synthesis of complex knowledge and skills provided throughout the MOT program to demonstrate Occupational Therapy advanced competencies for a total of 14 weeks of supervised fieldwork experience in affiliated health agencies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OSOT_V 558-01	OSOT_V	558	01	Occupational Therapy Practice: Fieldwork III	W2	Evidence of integration and synthesis of complex knowledge and skills provided throughout the MOT program to demonstrate Occupational Therapy advanced competencies for a total of 14 weeks of supervised fieldwork experience in affiliated health agencies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OSOT_V 558-1	OSOT_V	558	1	Occupational Therapy Practice: Fieldwork III	W1-2	Evidence of integration and synthesis of complex knowledge and skills provided throughout the MOT program to demonstrate Occupational Therapy advanced competencies for a total of 14 weeks of supervised fieldwork experience in affiliated health agencies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
OSOT_V 558-DNU_001	OSOT_V	558	DNU_001	Occupational Therapy Practice: Fieldwork III	W1-2	Evidence of integration and synthesis of complex knowledge and skills provided throughout the MOT program to demonstrate Occupational Therapy advanced competencies for a total of 14 weeks of supervised fieldwork experience in affiliated health agencies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PATH_V 300-001	PATH_V	300	001	Background to Medical Laboratory Science	W1-2	Hematology, histochemistry and selected areas of clinical chemistry and relevant fundamentals of human physiology.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
PATH_V 301-001	PATH_V	301	001	Basic and Physical Biochemistry in Medical Laboratory Science	W1-2	Basic and physical biochemical sciences relevant to medical laboratory science. Emphasis on the application of basic science to relevant clinical disciplines and translational research.	In Person Learning	Mon Wed	8:00 a.m. - 10:00 a.m.
PATH_V 301-L01	PATH_V	301	L01	Basic and Physical Biochemistry in Medical Laboratory Science	W1-2	Basic and physical biochemical sciences relevant to medical laboratory science. Emphasis on the application of basic science to relevant clinical disciplines and translational research.	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.
PATH_V 301-L02	PATH_V	301	L02	Basic and Physical Biochemistry in Medical Laboratory Science	W1-2	Basic and physical biochemical sciences relevant to medical laboratory science. Emphasis on the application of basic science to relevant clinical disciplines and translational research.	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.
PATH_V 303-001	PATH_V	303	001	Cytogenetics, Molecular Genetics, Tissue Culture & Cytology	W1-2	Fundamentals of human genetics and molecular biology as they relate to studying and detecting disease in a population; tissue culture techniques to assess cell viabilities; cytomorphology principles in disease detection.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.
PATH_V 303-L01	PATH_V	303	L01	Cytogenetics, Molecular Genetics, Tissue Culture & Cytology	W1-2	Fundamentals of human genetics and molecular biology as they relate to studying and detecting disease in a population; tissue culture techniques to assess cell viabilities; cytomorphology principles in disease detection.	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.
PATH_V 303-L02	PATH_V	303	L02	Cytogenetics, Molecular Genetics, Tissue Culture & Cytology	W1-2	Fundamentals of human genetics and molecular biology as they relate to studying and detecting disease in a population; tissue culture techniques to assess cell viabilities; cytomorphology principles in disease detection.	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.
PATH_V 304-001	PATH_V	304	001	Normal Human Histology	W1-2	Human anatomy at the microscopic level; identification of normal human tissues by light microscopy; how specific tissue anatomy relates to function.	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
PATH_V 305-001	PATH_V	305	001	Modern Microscopy	W2	Theoretical and practical application of widely used microscopy techniques.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
PATH_V 306-001	PATH_V	306	001	Safety for Medical Laboratory Scientists	W1	Workplace hazards of chemical, biological and ergonomic origin.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
PATH_V 327-001	PATH_V	327	001	Bacteriology, Mycology, Virology and Parasitology	W1-2	Biological attributes, clinical features, pathogenesis and pathology, epidemiology, immunological reactions, laboratory diagnosis, principles of antimicrobial therapy and preventative measures of human microbial pathogens.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
PATH_V 375-001	PATH_V	375	001	Introduction to Human Pathology	W1	Causes, natural history and pathophysiology of common disease processes. Prerequisite: 6 credits each first year BIOL and CHEM	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PATH_V 375-002	PATH_V	375	002	Introduction to Human Pathology	W2	Causes, natural history and pathophysiology of common disease processes. Prerequisite: 6 credits each first year BIOL and CHEM	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PATH_V 402-001	PATH_V	402	001	Medical Laboratory Science: Hematology	W1-2	A theoretical and practical examination of those modern concepts of haematology which relate to the practice of medical laboratory science.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
PATH_V 404-001	PATH_V	404	001	Diagnostic Histochemistry	W1-2	Theory and practice of common histochemical techniques; experimental design, data analysis and presentation.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.

PATH_V 405-001	PATH_V	405	001	Seminars in Current Topics	W1-2	Oral and written presentation and critical appraisal of scientific papers.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
PATH_V 406-001	PATH_V	406	001	Clinical Chemistry	W1-2	Biochemistry tests in clinical medicine and the analytical chemistry techniques used to produce the results; pathophysiology of common clinical conditions.	In Person Learning	Mon Thu	9:00 a.m. - 11:00 a.m.	
PATH_V 407-001	PATH_V	407	001	Medical Laboratory Toxicology: Analytical, Clinical	W1-2	A theoretical and practical examination of analytical and pathophysiological aspects of clinical and forensic toxicology.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.	
PATH_V 408-001	PATH_V	408	001	Research and Career Skills	W1	Overall operation of research laboratories including roles of personnel and funding; communication of scientific research; career skills and pathways; communication, collaboration, presentations and peer-assessment skills.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.	
PATH_V 415-001	PATH_V	415	001	Immunopathology	W2	Innate and adaptive immunity and how these host defense mechanisms are involved in both health and illness.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.	
PATH_V 417-A_002	PATH_V	417	A	A_002	Human Bacterial Infections	W2	Students acquire content relating to the virulence factors of the bacteria and the pathophysiology of the host while working through case scenarios on their own and in online groups. Students taking this course must be willing to engage in both self-directed and small-group learning. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
PATH_V 437-001	PATH_V	437	001	Viral Infections in Humans	W1	Interactions between viruses and humans; pathogenesis; prompt virological diagnosis; rationale for antiviral chemotherapy and prophylaxis. [3-0-0] Equivalency: MICB407	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.	
PATH_V 438-E_005	PATH_V	438	E	E_005	Medical Laboratory Science: Directed Studies	W1-2	Investigation of a specific topic in Medical Laboratory Science. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PATH_V 451-001	PATH_V	451	001	Clerkship in Laboratory Medicine and Infection Prevention and Control	W1	May involve attendance at an approved institution and/or a project assigned by the instructor(s). Instructor permission required. Enrolment may be limited.	In Person Learning	Arranged	Arranged	
PATH_V 451-002	PATH_V	451	002	Clerkship in Laboratory Medicine and Infection Prevention and Control	W2	May involve attendance at an approved institution and/or a project assigned by the instructor(s). Instructor permission required. Enrolment may be limited.	In Person Learning	Arranged	Arranged	
PATH_V 477-001	PATH_V	477	001	Basic Epidemiology for Infection Control	W1	Epidemiology, study, design and analysis, and outbreak investigation as it applies to institutional infection control. Equivalency: SPPH 401	Online Learning	Arranged	Arranged	
PATH_V 501-001	PATH_V	501	001	Foundations of Human Histopathology	W1	Microscopic anatomy of human tissues and organs in health and disease. Principles of histological analysis and applications in pathology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:30 p.m. - 5:30 p.m.	
PATH_V 502-001	PATH_V	502	001	Current Topics in Pathology Research	W2	General principles of etiology, pathogenesis, disordered physiology, and anatomic pathology of common disease processes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
PATH_V 531-001	PATH_V	531	001	Molecular and Cell Biology of Cancer	W2	This course focuses on molecular and cell biology of cancer and consists of a series of lectures/reviews combined with discussions and presentations by students on the topics selected by the instructors. Emphasis will be on students' presentations and discussion. This course is not eligible for Credit/D/Fail grading. [3-0] Prerequisite: MEDG 421 is recommended. Course coordinator approval is required. Equivalency: MEDG521	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
PATH_V 535-001	PATH_V	535	001	Seminar	W1-2	Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.	
PATH_V 535-002	PATH_V	535	002	Seminar	W1	Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.	
PATH_V 535-003	PATH_V	535	003	Seminar	W2	Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.	
PATH_V 547-001	PATH_V	547	001	Techniques in Molecular Biology and Experimental Pathology	W2	Nucleic acid purification and characterization; restriction enzyme digests; northern and southern blotting; cloning; DNA sequencing; polymerase chain reaction technology; electron microscopy; fluorescein-activated cell sorting. This course is not eligible for Credit/D/Fail grading. [0-6]	In Person Learning	Thu	10:00 a.m. - 6:00 p.m.	
PATH_V 548-B_001	PATH_V	548	B	B_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PATH_V 548-C_03B	PATH_V	548	C	C_03B	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	10:00 a.m. - 11:30 a.m.
PATH_V 548-K_001	PATH_V	548	K	K_001	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
PATH_V 548-L_001	PATH_V	548	L	L_001	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.

PATH_V 548-O_001	PATH_V	548	O	O_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	1:30 p.m. - 3:30 p.m.
PATH_V 549-A_001	PATH_V	549	A	A_001	M.Sc. Thesis	W1-2	Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PATH_V 549-A_002	PATH_V	549	A	A_002	M.Sc. Thesis	W1	Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PATH_V 549-A_003	PATH_V	549	A	A_003	M.Sc. Thesis	W2	Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PATH_V 570-001	PATH_V	570		001	Cardiovascular Pathophysiology	W2	Pathogenesis, abnormal physiology, and therapeutic approaches in heart disease including cardiac arrhythmia, heart failure, myocardial infarction, hypertension, atherosclerosis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PATH_V 635-001	PATH_V	635		001	Seminar	W1-2	Attendance required for all Ph.D. candidates in the department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
PATH_V 635-002	PATH_V	635		002	Seminar	W1	Attendance required for all Ph.D. candidates in the department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
PATH_V 635-003	PATH_V	635		003	Seminar	W2	Attendance required for all Ph.D. candidates in the department. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
PATH_V 649-001	PATH_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
PATH_V 649-002	PATH_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
PATH_V 649-003	PATH_V	649		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
PATH_V 720-001	PATH_V	720		001	Microbiological Diagnosis	W1-2	Conduct of bacterial, fungal, parasitological, and viral laboratory tests relevant to the microbiological examination of patients. For medical residents.	In Person Learning	Arranged	Arranged
PATH_V 721-001	PATH_V	721		001	Microbiological Research	W1-2	Conduct of research on some aspect of clinical or basic microbiology. For medical residents.	In Person Learning	Arranged	Arranged
PATH_V 722-001	PATH_V	722		001	Microbial Infections	W1-2	Review in depth of syndromes caused by common human pathogenic bacteria, fungi and viruses, including principles of current laboratory diagnostic procedures and the rational use of antibiotics and prophylactic agents. For medical residents.	In Person Learning	Arranged	Arranged
PATH_V 725-001	PATH_V	725		001	Histopathology of Infectious Diseases	W1-2	Gross and microscopic changes associated with infections, and the pathophysiology involved in their development. The course includes seminars based on histological specimens. For residents in Medical Microbiology, General and Anatomical Pathology, and Infectious Diseases.	In Person Learning	Arranged	Arranged
PCTH_V 201-001	PCTH_V	201		001	Drugs and Society	W1	Introductory principles of drug action. Historical and present day medical and non-medical use of drugs. [3-0] Prerequisite: One of BIOL 12, BIOL 111, BIOL 112, BIOL 153, BIOL 155, SCIE 001. Second-year standing is required.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PCTH_V 301-001	PCTH_V	301		001	Introduction to Pharmacology	W1	Fundamental concepts of drug-receptor interactions in the context of autonomic, autacoid, and psychoactive pharmacology. [3-0-0] Prerequisite: All of CAPS 205, CAPS 206. or CAPS 301 as a co-requisite.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PCTH_V 302-001	PCTH_V	302		001	Introductory Pharmacology Laboratory	W1-2	A series of experimental demonstrations and individual laboratory experiments illustrating the basic principles of pharmacology. [1-3-0;1-3-0] Corequisite: One of PCTH 300, PCTH 301.	In Person Learning	Wed	2:00 p.m. - 5:30 p.m.
PCTH_V 303-001	PCTH_V	303		001	Pharmacology in Health and Disease	W2	Pharmacological modulation of physiological systems in health and disease. [3-0-0] Prerequisite: PCTH 301 or CAPS 301 as a co-requisite.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PCTH_V 325-001	PCTH_V	325		001	Rational Basis of Drug Therapy	W1	The principles and applications underlying the action and disposition of therapeutic agents (including alternative medicines) in the body. Use of drugs as tools in experimental research. [3-0] Prerequisite: One of BIOL 201, BIOL 202, BIOL 203, BIOL 300. Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PCTH_V 398-001	PCTH_V	398		001	Co-operative Work Placement I	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PCTH 300, PCTH 303.	In Person Learning	Arranged	Arranged
PCTH_V 399-001	PCTH_V	399		001	Co-operative Work Placement II	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PCTH398]	In Person Learning	Arranged	Arranged
PCTH_V 399-002	PCTH_V	399		002	Co-operative Work Placement II	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PCTH398]	In Person Learning	Arranged	Arranged

PCTH_V 400-001	PCTH_V	400		001	Systematic Pharmacology	W1-2	Lectures and discussions in scientific pharmacology, with a concentration on the scientific aspects of the pharmacology of neurohumoral transmission; mathematics of pharmacology; cardiovascular, respiratory and clinical pharmacology; and to a lesser extent on the pharmacology of various organs and tissues. [3-0-0; 3-0-0] Prerequisite: Either (a) PCTH 303 or (b) one of PCTH 300, PCTH 305.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PCTH_V 402-001	PCTH_V	402		001	Systematic Pharmacology Laboratory	W1-2	A series of demonstrated, group, and individual laboratory experiments designed to illustrate the concepts and hypotheses of pharmacology. The course is restricted to Honours students in Pharmacology, but may be taken by others with permission of the department head. [0-7-0,0-7-0] Prerequisite: All of PCTH 302, PCTH 303.	In Person Learning	Mon	12:00 p.m. - 6:00 p.m.
PCTH_V 404-001	PCTH_V	404		001	Drug Assay and Pharmacometrics	W1-2	The techniques, including methods of statistical analysis, used to detect and measure the actions of endogenous or exogenous chemicals, using chemical assays and bioassays as appropriate. Enrolment limited to students in Pharmacology and others with permission of the department head. [1-0; 2-0] Prerequisite: Either (a) PCTH 303 or (b) one of PCTH 300, PCTH 305; and one of BIOL 300, STAT 200.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
PCTH_V 448-B_001	PCTH_V	448	B	B_001	Directed Studies in Pharmacology	W1	Advanced investigation of a specific topic in Pharmacology. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 448-B_201	PCTH_V	448	B	B_201	Directed Studies in Pharmacology	W2	Advanced investigation of a specific topic in Pharmacology. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 448-E_002	PCTH_V	448	E	E_002	Directed Studies in Pharmacology	W1-2	Advanced investigation of a specific topic in Pharmacology. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 449-A_001	PCTH_V	449	A	A_001	Honours Thesis	W1-2	A research problem directed by a faculty member. Restricted to Honours Pharmacology students.	In Person Learning	Arranged	Arranged
PCTH_V 449-C_002	PCTH_V	449	C	C_002	Honours Thesis	W1-2	A research problem directed by a faculty member. Restricted to Honours Pharmacology students.	In Person Learning	Arranged	Arranged
PCTH_V 498-001	PCTH_V	498		001	Co-operative Work Placement III	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PCTH399]	In Person Learning	Arranged	Arranged
PCTH_V 498-002	PCTH_V	498		002	Co-operative Work Placement III	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Technical report required. Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PCTH399]	In Person Learning	Arranged	Arranged
PCTH_V 499-001	PCTH_V	499		001	Co-operative Work Placement IV	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the summer after fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PCTH498]	In Person Learning	Arranged	Arranged
PCTH_V 514-001	PCTH_V	514		001	Seminar in Pharmacology or Therapeutics	W1-2	To give students experience in the presentation of data and to enhance communication skills in the discussion of scientific topics. All students will present at least one seminar during their graduate work and would be expected to attend all seminars. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 1:30 p.m.
PCTH_V 514-101	PCTH_V	514		101	Seminar in Pharmacology or Therapeutics	W1	To give students experience in the presentation of data and to enhance communication skills in the discussion of scientific topics. All students will present at least one seminar during their graduate work and would be expected to attend all seminars. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 1:30 p.m.
PCTH_V 514-201	PCTH_V	514		201	Seminar in Pharmacology or Therapeutics	W2	To give students experience in the presentation of data and to enhance communication skills in the discussion of scientific topics. All students will present at least one seminar during their graduate work and would be expected to attend all seminars. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 1:30 p.m.
PCTH_V 548-A_001	PCTH_V	548	A	A_001	Directed Studies in Pharmacology	W1-2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-A_002	PCTH_V	548	A	A_002	Directed Studies in Pharmacology	W1-2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-B_001	PCTH_V	548	B	B_001	Directed Studies in Pharmacology	W1	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-B_002	PCTH_V	548	B	B_002	Directed Studies in Pharmacology	W1	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-B_003	PCTH_V	548	B	B_003	Directed Studies in Pharmacology	W1	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-C_001	PCTH_V	548	C	C_001	Directed Studies in Pharmacology	W2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-C_002	PCTH_V	548	C	C_002	Directed Studies in Pharmacology	W2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-D_001	PCTH_V	548	D	D_001	Directed Studies in Pharmacology	W1-2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

PCTH_V 548-D_002	PCTH_V	548	D	D_002	Directed Studies in Pharmacology	W1-2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-D_004	PCTH_V	548	D	D_004	Directed Studies in Pharmacology	W1-2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-E_001	PCTH_V	548	E	E_001	Directed Studies in Pharmacology	W2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-E_002	PCTH_V	548	E	E_002	Directed Studies in Pharmacology	W2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-E_005	PCTH_V	548	E	E_005	Directed Studies in Pharmacology	W2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-F_001	PCTH_V	548	F	F_001	Directed Studies in Pharmacology	W1-2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 548-F_002	PCTH_V	548	F	F_002	Directed Studies in Pharmacology	W1-2	In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PCTH_V 549-001	PCTH_V	549		001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PCTH_V 549-002	PCTH_V	549		002	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PCTH_V 549-003	PCTH_V	549		003	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PCTH_V 649-001	PCTH_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
PCTH_V 649-002	PCTH_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
PCTH_V 649-003	PCTH_V	649		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
PERS_V 100-011	PERS_V	100		011	Basic Persian I	W1	Basic vocabulary and the fundamentals of modern Persian grammar, structure, and pronunciation, as well as reading, writing, listening, and speaking.	Multi-access Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
PERS_V 101-021	PERS_V	101		021	Basic Persian II	W2	Continuation of PERS 100. Recommended pre-requisite: PERS 100.	Multi-access Learning	Fri	2:00 p.m. - 3:00 p.m.
PERS_V 104-021	PERS_V	104		021	Persian Reading and Writing for Persian-Speaking Students	W2	Reading and writing of standard Persian; lexical and syntactic differences between written and spoken Persian. Restricted to Persian heritage speakers with aural/oral knowledge but no reading/writing skills.	Multi-access Learning	Fri	11:00 a.m. - 12:00 p.m.
PERS_V 200-011	PERS_V	200		011	Intermediate-Low Persian I	W1	Reading of simple texts with emphasis on reading and writing, conversation skills, grammar, and syntax. Recommended pre-requisite: one of PERS 101, PERS 104.	Multi-access Learning	Fri	3:30 p.m. - 4:30 p.m.
PERS_V 201-021	PERS_V	201		021	Intermediate-Low Persian II	W2	Continuation of PERS 200. Recommended pre-requisite: PERS 200.	Multi-access Learning	Fri	3:30 p.m. - 4:30 p.m.
PERS_V 300-011	PERS_V	300		011	Intermediate-High Persian I	W1	Graded reading, writing, exposure to textual history, newspaper reading, and translation. Cultural materials presented as appropriate. Recommended pre-requisites: PERS 201 or Persian heritage speakers with basic reading/writing skills (no more than Grade 6 formal education in Iran).	Multi-access Learning	Tue Thu	12:00 p.m. - 2:00 p.m.
PERS_V 301-021	PERS_V	301		021	Intermediate-High Persian II	W2	Continuation of PERS 300. Recommended pre-requisite: PERS 300.	Multi-access Learning	Tue Thu	12:00 p.m. - 2:00 p.m.
PERS_V 310-021	PERS_V	310		021	Persian Media	W2	Reading, understanding and participating in contemporary registers of Persian Language as used in newspapers, radio/TV, as well as in online news and social media. Recommended pre-requisites: PERS 104, 201, or 3 credits of PERS at the 300 level, or permission of instructor.	In Person Learning	Arranged	Arranged
PERS_V 400-011	PERS_V	400		011	Persian Short Story for Native and Heritage Speakers	W1	Modern short stories from mid-19th century to present. Recommended pre-requisites: one of PERS 104, PERS 300, or Persian heritage speakers with strong reading/writing skills (High School). NOT eligible to students who have studied at the post-secondary level in Iran.	Multi-access Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
PERS_V 401-021	PERS_V	401		021	Contemporary Iranian Cinema for Advanced Speakers of Persian	W2	Iranian cultural norms, and sociopolitical information about Iranian society and history, as conveyed through Iranian cinema. Emphasis on speaking, writing, and vocabulary development of Persian language. Recommended pre-requisites: PERS 300, or native or proficient heritage speaker of Persian with permission of the instructor.	Multi-access Learning	Mon Wed	5:00 p.m. - 6:30 p.m.

PERS_V 451-011	PERS_V	451	011	Persian through Shahnameh for Advanced Speakers of Persian	W1	Persian through Shahnameh, with a focus on speaking, reading, writing and vocabulary development. Emphasis on Iranian cultural norms, mentalities and values. Recommended prerequisite: PERS 300 or native or proficient heritage speaker of Persian, with permission of the instructor.	In Person Learning	Arranged	Arranged
PHAR_V 180-001	PHAR_V	180	001	Pharmaceutical Topics and Communication Seminar I	W2	Current topics in the Pharmaceutical Sciences and basic skills for a short presentation on a biological science topic. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
PHAR_V 202-001	PHAR_V	202	001	Biochemical Pharmacology	W1	Biochemical pharmacology including fundamental aspects of enzymology, biochemistry, enzyme kinetics, drug metabolism and pharmacokinetics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHAR_V 203-001	PHAR_V	203	001	Drug Delivery Technologies and Personalized Medicine Theory and Laboratory	W2	Theoretical and practical knowledge of biopharmaceuticals, pharmaceuticals, formulations, nanomedicine, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
PHAR_V 203-L01	PHAR_V	203	L01	Drug Delivery Technologies and Personalized Medicine Theory and Laboratory	W2	Theoretical and practical knowledge of biopharmaceuticals, pharmaceuticals, formulations, nanomedicine, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue (Alternate weeks)	8:00 a.m. - 12:00 p.m.
PHAR_V 203-L02	PHAR_V	203	L02	Drug Delivery Technologies and Personalized Medicine Theory and Laboratory	W2	Theoretical and practical knowledge of biopharmaceuticals, pharmaceuticals, formulations, nanomedicine, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu (Alternate weeks)	8:00 a.m. - 12:00 p.m.
PHAR_V 203-L03	PHAR_V	203	L03	Drug Delivery Technologies and Personalized Medicine Theory and Laboratory	W2	Theoretical and practical knowledge of biopharmaceuticals, pharmaceuticals, formulations, nanomedicine, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue (Alternate weeks)	8:00 a.m. - 12:00 p.m.
PHAR_V 203-L04	PHAR_V	203	L04	Drug Delivery Technologies and Personalized Medicine Theory and Laboratory	W2	Theoretical and practical knowledge of biopharmaceuticals, pharmaceuticals, formulations, nanomedicine, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu (Alternate weeks)	8:00 a.m. - 12:00 p.m.
PHAR_V 204-001	PHAR_V	204	001	Pharmaceutical Research	W2	Types of research scientists in Academia and Industry across the broad range of Pharmaceutical Science Disciplines. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PHAR_V 204-002	PHAR_V	204	002	Pharmaceutical Research	W2	Types of research scientists in Academia and Industry across the broad range of Pharmaceutical Science Disciplines. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHAR_V 205-001	PHAR_V	205	001	Clinical Epidemiology & Pharmaceutical Outcomes I	W2	Population-level study designs and critical appraisal skills in evidence evaluation, with a special emphasis on evidence-based pharmacy practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
PHAR_V 280-001	PHAR_V	280	001	Pharmaceutical Topics and Communication Seminar II	W2	Current topics in the Pharmaceutical and Biotechnology Industry and intermediate level skills for a short presentation. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 180.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHAR_V 302-001	PHAR_V	302	001	Pharmacokinetics and Pharmacogenomics	W1	Basic pharmacokinetic concepts: metabolism, clearance, volume of distribution, half-life, and hepatic clearance. Basic pharmacogenomics concepts of genetic polymorphism. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHAR_V 303-001	PHAR_V	303	001	Nanomedicine	W2	Advanced nanomedicine concepts for drug packaging, delivery, and efficacy. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 202.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.
PHAR_V 304-001	PHAR_V	304	001	Techniques in Molecular Biology and Pharmacology Theory and Laboratory	W1	Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
PHAR_V 304-L01	PHAR_V	304	L01	Techniques in Molecular Biology and Pharmacology Theory and Laboratory	W1	Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.	In Person Learning	Arranged	Arranged
PHAR_V 304-L02	PHAR_V	304	L02	Techniques in Molecular Biology and Pharmacology Theory and Laboratory	W1	Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.	In Person Learning	Arranged	Arranged
PHAR_V 304-L03	PHAR_V	304	L03	Techniques in Molecular Biology and Pharmacology Theory and Laboratory	W1	Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.	In Person Learning	Wed Fri	2:00 p.m. - 5:00 p.m.
PHAR_V 304-L04	PHAR_V	304	L04	Techniques in Molecular Biology and Pharmacology Theory and Laboratory	W1	Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.	In Person Learning	Wed Fri	8:00 a.m. - 11:00 a.m.
PHAR_V 305-001	PHAR_V	305	001	Clinical Epidemiology & Pharmaceutical Outcomes II	W2	Population-level study designs and their critical appraisal skills in evidence evaluation, with a special emphasis on evidence-based pharmacy practice and the practical application of population-level data analysis and interpretation. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 205.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
PHAR_V 306-001	PHAR_V	306	001	Medicinal Chemistry of High-Impact Pharmaceuticals in Major Diseases	W2	Structure and mechanism of action of drugs used in the treatment of major chronic diseases: heart disease, cancer, lung disease, and diabetes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 233, PHAR 202.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHAR_V 307-001	PHAR_V	307	001	Analytical Sciences Theory and Laboratory	W2	Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.	In Person Learning	Tue Thu	9:00 a.m. - 10:00 a.m.
PHAR_V 307-L01	PHAR_V	307	L01	Analytical Sciences Theory and Laboratory	W2	Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.	In Person Learning	Mon	1:00 p.m. - 5:00 p.m.

PHAR_V 307-L02	PHAR_V	307	L02	Analytical Sciences Theory and Laboratory	W2	Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.	
PHAR_V 307-L03	PHAR_V	307	L03	Analytical Sciences Theory and Laboratory	W2	Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.	In Person Learning	Fri	1:00 p.m. - 5:00 p.m.	
PHAR_V 307-L04	PHAR_V	307	L04	Analytical Sciences Theory and Laboratory	W2	Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.	In Person Learning	Thu	1:00 p.m. - 5:00 p.m.	
PHAR_V 308-001	PHAR_V	308	001	Systematic Pharmacology	W1	General principles of pharmacodynamics and pharmacokinetics: drug action on nervous, cardiovascular, GI and endocrine systems; beneficial and detrimental effects of drug action. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 202.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
PHAR_V 370-001	PHAR_V	370	001	Pharmaceutical Cases I	W1	Application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Development of self-directed learning skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.	
PHAR_V 370-L01	PHAR_V	370	L01	Pharmaceutical Cases I	W1	Application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Development of self-directed learning skills. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	12:00 p.m. - 2:00 p.m.	
PHAR_V 380-001	PHAR_V	380	001	Pharmaceutical Topics and Communication Seminar III	W2	Preliminary skills and concepts for planning, delivering and critiquing a scientific presentation using selected topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 280.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.	
PHAR_V 421-001	PHAR_V	421	001	Precision Medicine	W1	Skills and concepts in pharmacogenomics as applied to medical practice and dosing. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 203.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
PHAR_V 421-L01	PHAR_V	421	L01	Precision Medicine	W1	Skills and concepts in pharmacogenomics as applied to medical practice and dosing. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 203.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.	
PHAR_V 422-001	PHAR_V	422	001	Pharmacoeconomics	W1	Evidence evaluation skills and understanding the role of, and the methods and principles used in, health economics and economic evaluation in healthcare, with a focus on health technology assessment studies. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 305.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
PHAR_V 423-001	PHAR_V	423	001	Statistical Methods for Pharmaceutical Outcomes Research	W1	Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical knowledge in the area of health outcomes. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 305.	Hybrid Learning	Tue	2:00 p.m. - 5:00 p.m.	
PHAR_V 424-001	PHAR_V	424	001	Financing and Therapeutics in the Canadian Health Care System	W2	Foundation in Canadian health care delivery systems and policies, with a focus on pharmaceutical policy and on comparison with other types of health care systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.	
PHAR_V 425-001	PHAR_V	425	001	Biologics	W2	Biologics as a therapeutic; how biologics are developed as drugs; synthesis and unique properties of biologics as drugs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
PHAR_V 426-001	PHAR_V	426	001	Advanced Anesthetics and Analgesics	W1	Advanced concepts in anesthetic and analgesic drugs, their uses and abuses. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 308.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.	
PHAR_V 427-001	PHAR_V	427	001	Drug Structures in Medicinal Chemistry	W2	Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 233, PHAR 202.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
PHAR_V 427-D01	PHAR_V	427	D01	Drug Structures in Medicinal Chemistry	W2	Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 233, PHAR 202.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.	
PHAR_V 428-001	PHAR_V	428	001	Clinical Chemistry	W1	Principles, practices and procedures of medical laboratory clinical chemistry. This course is not eligible for Credit/D/Fail grading. Prerequisite: CHEM 211.	In Person Learning	Arranged	Arranged	
PHAR_V 429-001	PHAR_V	429	001	Adverse Drug Reactions	W2	Molecular and physiological basis of common adverse drug reactions (ADRs). ADRs in the context of current understanding of drug metabolism and pharmacogenetics. New approaches to prediction, detection and treatment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
PHAR_V 431-001	PHAR_V	431	001	Functional Foods	W2	Functional food concepts related to efficacy and safety; examples of bioactive component-disease relationships; natural health products; approval of functional food and health claims; the importance of clinical studies in support of efficacy for health claims; market determinants of functional foods. Credit will be granted for only one of PHAR 431 or FNH 402. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing or permission of the instructor. Equivalency: FNH402	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
PHAR_V 432-001	PHAR_V	432	001	Toxicology	W2	Biochemical, cellular, and molecular processes that govern toxicity elicited by drugs and environmental toxins at the molecular, cellular, tissue, and organ system levels. Adverse drug reactions and precision medicine approaches to mitigate drug toxicity. Prerequisite: PHAR 308.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.	
PHAR_V 433-001	PHAR_V	433	001	Advanced Pharmacokinetics	W1	Polyexponential pharmacokinetics, pharmacokinetic/pharmacodynamic modeling, pharmacokinetic predictions, physiologically-based pharmacokinetic modeling and population-based pharmacokinetic modeling. Credit will be granted for only one of PHAR 433 or PHAR 502. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 302.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
PHAR_V 450-A_001	PHAR_V	450	A	A_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

PHAR_V 450-B_001	PHAR_V	450	B	B_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 450-C_001	PHAR_V	450	C	C_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 450-D_001	PHAR_V	450	D	D_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 450-E_001	PHAR_V	450	E	E_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 450-F_001	PHAR_V	450	F	F_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 450-G_001	PHAR_V	450	G	G_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 450-H_001	PHAR_V	450	H	H_001	Selected Topics	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 470-001	PHAR_V	470		001	Pharmaceutical Cases II	W1	Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Further development and practice of self-directed learning skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.	Online Learning	Arranged	Arranged
PHAR_V 470-002	PHAR_V	470		002	Pharmaceutical Cases II	W2	Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Further development and practice of self-directed learning skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.	In Person Learning	Mon	12:00 p.m. - 2:00 p.m.
PHAR_V 470-DNU_001	PHAR_V	470		DNU_001	Pharmaceutical Cases II	W2	Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Further development and practice of self-directed learning skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.	In Person Learning	Arranged	Arranged
PHAR_V 470-L01	PHAR_V	470		L01	Pharmaceutical Cases II	W1	Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Further development and practice of self-directed learning skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.	Online Learning	Arranged	Arranged
PHAR_V 470-L02	PHAR_V	470		L02	Pharmaceutical Cases II	W2	Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problem solve authentic cases and problems of increasing complexity. Further development and practice of self-directed learning skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.	Hybrid Learning	Wed	12:00 p.m. - 2:00 p.m.
PHAR_V 480-001	PHAR_V	480		001	Pharmaceutical Topics and Communication Seminar IV	W1	Senior level skills and concepts for planning, delivering and critiquing a scientific seminar using extended topics in the pharmaceutical sciences and beyond. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 380.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
PHAR_V 480-002	PHAR_V	480		002	Pharmaceutical Topics and Communication Seminar IV	W2	Senior level skills and concepts for planning, delivering and critiquing a scientific seminar using extended topics in the pharmaceutical sciences and beyond. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 380.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
PHAR_V 485-001	PHAR_V	485		001	Research Project	W1	Provides research experience equivalent to one full-time term of work on a defined research project in an area of pharmaceutical research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 485-002	PHAR_V	485		002	Research Project	W2	Provides research experience equivalent to one full-time term of work on a defined research project in an area of pharmaceutical research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 491-001	PHAR_V	491		001	Honours Thesis	W1	Research project and production of a thesis document in an area of pharmaceutical research according to national/international standards. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 491-002	PHAR_V	491		002	Honours Thesis	W2	Research project and production of a thesis document in an area of pharmaceutical research according to national/international standards. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 495-001	PHAR_V	495		001	Practicum	W1	Provides practicum experience equivalent to one full-time term of work in a professional area of pharmaceutical research This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 495-002	PHAR_V	495		002	Practicum	W2	Provides practicum experience equivalent to one full-time term of work in a professional area of pharmaceutical research This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 497-B_001	PHAR_V	497	B	B_001	Directed Studies in Pharmaceutical Sciences	W1	Individual assignments involving library and laboratory investigation in an area of pharmaceutical research. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 204.	In Person Learning	Arranged	Arranged

PHAR_V 497-B_002	PHAR_V	497	B	B_002	Directed Studies in Pharmaceutical Sciences	W2	Individual assignments involving library and laboratory investigation in an area of pharmaceutical research. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 204.	In Person Learning	Arranged	Arranged
PHAR_V 497-E_001	PHAR_V	497	E	E_001	Directed Studies in Pharmaceutical Sciences	W1-2	Individual assignments involving library and laboratory investigation in an area of pharmaceutical research. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 204.	In Person Learning	Arranged	Arranged
PHAR_V 501-001	PHAR_V	501		001	Advanced Pharmacotherapeutics	W1-2	Pharmacotherapeutic intervention in selected acute and chronic diseases and disorders. Emphasis is on recommendations for and monitoring of drug therapy. This course is not eligible for Credit/D/Fail grading. [3-6]	In Person Learning	Arranged	Arranged
PHAR_V 502-001	PHAR_V	502		001	Advanced Concepts in Pharmacokinetics	W1	Models of linear and dose-dependent systems in pharmacokinetics including sustained release, volumes of distribution, drug clearance, metabolite kinetics, multiple dosing and computer modelling. Credit will be granted for only one of PHAR 502 or PHAR 433. This course is not eligible for Credit/D/Fail grading. [4-0]	In Person Learning	Arranged	Arranged
PHAR_V 502-002	PHAR_V	502		002	Advanced Concepts in Pharmacokinetics	W1	Models of linear and dose-dependent systems in pharmacokinetics including sustained release, volumes of distribution, drug clearance, metabolite kinetics, multiple dosing and computer modelling. Credit will be granted for only one of PHAR 502 or PHAR 433. This course is not eligible for Credit/D/Fail grading. [4-0]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHAR_V 506-001	PHAR_V	506		001	Critical Appraisal of Pharmacotherapy Literature	W1-2	Identification, evaluation, and application of evidence relevant to improving clinical pharmacy practice and patient care. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
PHAR_V 508-001	PHAR_V	508		001	Advanced Applications in Clinical Pharmacokinetics	W1-2	Pharmacokinetic applications in therapeutic drug monitoring and patient care; specific drugs and disease states; effects of age and concomitant drug administration. This course is not eligible for Credit/D/Fail grading. [4-0] Prerequisite: [PHAR502]	In Person Learning	Arranged	Arranged
PHAR_V 510-C_001	PHAR_V	510	C	C_001	Advanced Pharmaceutics I	W1-2	A study of physical and chemical properties of pharmaceutical systems with emphasis on formulation and preparative aspects. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 511-E_001	PHAR_V	511	E	E_001	Advanced Pharmaceutics II	W1-2	A study of problems in pharmaceutics with emphasis on biopharmaceutical aspects. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 511-E_004	PHAR_V	511	E	E_004	Advanced Pharmaceutics II	W1-2	A study of problems in pharmaceutics with emphasis on biopharmaceutical aspects. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 515-001	PHAR_V	515		001	Nanomedicines	W2	Nano-sized drug delivery systems and their interactions with biological systems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.
PHAR_V 520-001	PHAR_V	520		001	Applied Omics Science for Drug Discovery and Development	W1	General principles of genomics, proteomics, glycomics, and metabolomics; advanced functional omics techniques and their applications in pharmaceutical research.	In Person Learning	Arranged	Arranged
PHAR_V 521-002	PHAR_V	521		002	Basic Theory & Practice of Scanning Electron Microscopy and Dynamic Light Scattering	W2	Sample preparation; standard & advanced imaging techniques; image interpretation & quantification, applications in pharmaceutical research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:30 a.m.
PHAR_V 522-001	PHAR_V	522		001	Basic Theory and Practice of Liquid Chromatography - Mass Spectrometry in Pharmaceutical Research	W1	Fundamental and practical knowledge and skills to run liquid chromatography tandem mass spectrometry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 522-002	PHAR_V	522		002	Basic Theory and Practice of Liquid Chromatography - Mass Spectrometry in Pharmaceutical Research	W1	Fundamental and practical knowledge and skills to run liquid chromatography tandem mass spectrometry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 523-001	PHAR_V	523		001	Basic Theory & Practice of Isothermal Titration Calorimetry	W1	Isothermal titration calorimetry thermodynamic concepts and practical applications in measuring molecular interactions. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 524-001	PHAR_V	524		001	Cell Culture and New Biomedical Approaches	W1	Basic cell culture techniques and novel insights into alternative methods in biomedical research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 533-A_01A	PHAR_V	533	A	A_01A	Clinical Clerkships I	W1-2	Required clinical rotations of four weeks' duration in selected specialty areas in medicine and clinical pharmacy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 534-T_01T	PHAR_V	534	T	T_01T	Clinical Clerkships II	W1-2	Elective clinical rotations of 4 weeks' duration in hospital, office or clinic locations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHAR_V 546-001	PHAR_V	546		001	Etiology of Diabetes, from Cell to Society	W2	Advanced course on pathophysiology and patient care for obesity and diabetes focusing on healthcare quality improvement, patient safety and optimising outcomes. This course is not eligible for Credit/D/Fail grading. Equivalency: PHRM346	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PHAR_V 548-001	PHAR_V	548		001	M.Sc. Seminar	W1-2	Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	12:00 p.m. - 1:00 p.m.
PHAR_V 548-002	PHAR_V	548		002	M.Sc. Seminar	W1	Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	12:00 p.m. - 1:00 p.m.
PHAR_V 548-003	PHAR_V	548		003	M.Sc. Seminar	W2	Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	12:00 p.m. - 1:00 p.m.



PHAR_V 550-E_003	PHAR_V	550	E	E_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHAR_V 550-F_001	PHAR_V	550	F	F_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHAR_V 550-F_002	PHAR_V	550	F	F_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHAR_V 550-F_003	PHAR_V	550	F	F_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHAR_V 554-001	PHAR_V	554		001	Advanced Hospital Pharmacy Management	W1	Institutional, professional and regulatory factors that influence the planning, implementation and control of pharmacy services in hospitals. Permission of instructor required. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Arranged	Arranged
PHAR_V 560-001	PHAR_V	560		001	Advanced Economic Evaluation in Health Care	W2	Economic evaluation of health technologies, considering, in detail, the policy context for the use of economic evaluation. This course is not eligible for Credit/D/Fail grading. Prerequisite: SPPH 541. Or equivalent training. Equivalency: SPPH 549	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
PHAR_V 561-001	PHAR_V	561		001	Pharmacoepidemiology	W2	Principles and applications of pharmacoepidemiology. Practical skills in designing, conducting, and appraising studies of medications in large populations. This course is not eligible for Credit/D/Fail grading. Prerequisite: Previous coursework in statistics or biostatistics.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
PHAR_V 590-001	PHAR_V	590		001	Research in the Pharmaceutical Sciences: Principles and Methods	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
PHAR_V 590-002	PHAR_V	590		002	Research in the Pharmaceutical Sciences: Principles and Methods	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PHAR_V 591-001	PHAR_V	591		001	Scholarly Integrity and Research Ethics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
PHAR_V 592-B_001	PHAR_V	592	B	B_001	Fundamentals of the Pharmaceutical Sciences Disciplines	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHAR_V 648-001	PHAR_V	648		001	Seminar for Ph.D. Students	W1-2	Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	12:00 p.m. - 1:00 p.m.
PHAR_V 648-002	PHAR_V	648		002	Seminar for Ph.D. Students	W1	Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	12:00 p.m. - 1:00 p.m.
PHAR_V 648-003	PHAR_V	648		003	Seminar for Ph.D. Students	W2	Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	12:00 p.m. - 1:00 p.m.
PHAR_V 649-001	PHAR_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
PHAR_V 649-002	PHAR_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
PHAR_V 649-003	PHAR_V	649		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
PHIL_V 100-001	PHIL_V	100		001	Introduction to Philosophy	W1-2	Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 and either or both PHIL 101 or PHIL 102.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
PHIL_V 100-L01	PHIL_V	100		L01	Introduction to Philosophy	W1-2	Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 and either or both PHIL 101 or PHIL 102.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 100-L02	PHIL_V	100		L02	Introduction to Philosophy	W1-2	Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 and either or both PHIL 101 or PHIL 102.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 100-L03	PHIL_V	100		L03	Introduction to Philosophy	W1-2	Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 and either or both PHIL 101 or PHIL 102.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 100-L04	PHIL_V	100		L04	Introduction to Philosophy	W1-2	Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 and either or both PHIL 101 or PHIL 102.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 100-L05	PHIL_V	100		L05	Introduction to Philosophy	W1-2	Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 and either or both PHIL 101 or PHIL 102.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.



PHIL_V 102-L06	PHIL_V	102	L06	Introduction to Philosophy II	W1	Basic problems and methods of philosophy. Topics such as morality, personal identity, free will and determinism, and the meaning of life. Credit will be granted for only one of PHIL 100 or PHIL 102.	Multi-access Learning	Arranged	Arranged
PHIL_V 102-L07	PHIL_V	102	L07	Introduction to Philosophy II	W2	Basic problems and methods of philosophy. Topics such as morality, personal identity, free will and determinism, and the meaning of life. Credit will be granted for only one of PHIL 100 or PHIL 102.	Multi-access Learning	Arranged	Arranged
PHIL_V 102-L08	PHIL_V	102	L08	Introduction to Philosophy II	W2	Basic problems and methods of philosophy. Topics such as morality, personal identity, free will and determinism, and the meaning of life. Credit will be granted for only one of PHIL 100 or PHIL 102.	Multi-access Learning	Arranged	Arranged
PHIL_V 120-001	PHIL_V	120	001	Introduction to Critical Thinking	W1	Tools for dealing with both everyday and more technical arguments and concepts. Analysis and resolution of confusions, ambiguities, and fallacies. This course is restricted to students with fewer than 90 credits.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 120-002	PHIL_V	120	002	Introduction to Critical Thinking	W2	Tools for dealing with both everyday and more technical arguments and concepts. Analysis and resolution of confusions, ambiguities, and fallacies. This course is restricted to students with fewer than 90 credits.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 120-99A	PHIL_V	120	99A	Introduction to Critical Thinking	W1	Tools for dealing with both everyday and more technical arguments and concepts. Analysis and resolution of confusions, ambiguities, and fallacies. This course is restricted to students with fewer than 90 credits.	Online Learning	Arranged	Arranged
PHIL_V 120-99C	PHIL_V	120	99C	Introduction to Critical Thinking	W2	Tools for dealing with both everyday and more technical arguments and concepts. Analysis and resolution of confusions, ambiguities, and fallacies. This course is restricted to students with fewer than 90 credits.	Online Learning	Arranged	Arranged
PHIL_V 125-001	PHIL_V	125	001	Introduction to Scientific Reasoning	W1	Historical and logical analysis of various types of scientific hypotheses and the data that support or undermine them. This course is restricted to students with fewer than 90 credits.	In Person Learning	Arranged	Arranged
PHIL_V 125-002	PHIL_V	125	002	Introduction to Scientific Reasoning	W1	Historical and logical analysis of various types of scientific hypotheses and the data that support or undermine them. This course is restricted to students with fewer than 90 credits.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 125-003	PHIL_V	125	003	Introduction to Scientific Reasoning	W2	Historical and logical analysis of various types of scientific hypotheses and the data that support or undermine them. This course is restricted to students with fewer than 90 credits.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PHIL_V 211-001	PHIL_V	211	001	Greek Philosophy I: Socrates and Plato	W1	The Pre-Socratics; Socrates; Sophists; Plato. Recommended as preparation for PHIL 310. Credit will only be granted for one of PHIL 211, CLST 211 or AMNE 235. Equivalency: CLST211, AMNE235	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 220-001	PHIL_V	220	001	Symbolic Logic	W1	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
PHIL_V 220-002	PHIL_V	220	002	Symbolic Logic	W1	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PHIL_V 220-003	PHIL_V	220	003	Symbolic Logic	W1	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 220-004	PHIL_V	220	004	Symbolic Logic	W1	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	Hybrid Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
PHIL_V 220-005	PHIL_V	220	005	Symbolic Logic	W1	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 220-006	PHIL_V	220	006	Symbolic Logic	W2	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 220-007	PHIL_V	220	007	Symbolic Logic	W2	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	Hybrid Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 220-008	PHIL_V	220	008	Symbolic Logic	W2	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHIL_V 220-009	PHIL_V	220	009	Symbolic Logic	W2	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.

PHIL_V 220-99A	PHIL_V	220	99A	Symbolic Logic	W1	Sentential and predicate logic. Translation from natural language; truth tables and interpretations; systems of natural deduction up to relational predicate logic with identity; alternative proof methods. Some sections may use computer-based materials and tests. Credit will be granted for only one of PHIL 220 and PHIL 222. Equivalency: PHIL 222	In Person Learning	Arranged	Arranged
PHIL_V 230-001	PHIL_V	230	001	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
PHIL_V 230-002	PHIL_V	230	002	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 230-003	PHIL_V	230	003	Introduction to Ethics	W2	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHIL_V 230-L01	PHIL_V	230	L01	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 230-L02	PHIL_V	230	L02	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 230-L03	PHIL_V	230	L03	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 230-L04	PHIL_V	230	L04	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 230-L05	PHIL_V	230	L05	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
PHIL_V 230-L06	PHIL_V	230	L06	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
PHIL_V 230-L07	PHIL_V	230	L07	Introduction to Ethics	W1	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	Multi-access Learning	Arranged	Arranged
PHIL_V 230-L08	PHIL_V	230	L08	Introduction to Ethics	W2	Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts.	Multi-access Learning	Arranged	Arranged
PHIL_V 235-001	PHIL_V	235	001	Contemporary Moral Issues	W2	Moral issues such as life and death decisions, paternalism, markets, animal welfare, technology, and global justice.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 235-002	PHIL_V	235	002	Contemporary Moral Issues	W1	Moral issues such as life and death decisions, paternalism, markets, animal welfare, technology, and global justice.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHIL_V 240-001	PHIL_V	240	001	Introduction to Epistemology	W1	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 240-002	PHIL_V	240	002	Introduction to Epistemology	W1	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	Online Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHIL_V 240-003	PHIL_V	240	003	Introduction to Epistemology	W2	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
PHIL_V 240-L01	PHIL_V	240	L01	Introduction to Epistemology	W2	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 240-L02	PHIL_V	240	L02	Introduction to Epistemology	W2	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 240-L03	PHIL_V	240	L03	Introduction to Epistemology	W2	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 240-L04	PHIL_V	240	L04	Introduction to Epistemology	W2	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 240-L05	PHIL_V	240	L05	Introduction to Epistemology	W1	Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts.	Multi-access Learning	Arranged	Arranged

PHIL_V 250-001	PHIL_V	250	001	Minds and Machines	W1	Philosophical and theoretical issues that pertain to how mental phenomena fit into the material world. Examine questions such as whether a sophisticated enough computer should be deemed a conscious intelligent being. Focus on philosophical literature on consciousness, intelligence, animal minds, and the mind-body relation.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHIL_V 250-002	PHIL_V	250	002	Minds and Machines	W2	Philosophical and theoretical issues that pertain to how mental phenomena fit into the material world. Examine questions such as whether a sophisticated enough computer should be deemed a conscious intelligent being. Focus on philosophical literature on consciousness, intelligence, animal minds, and the mind-body relation.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 260-001	PHIL_V	260	001	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of PHIL 260 or HIST 260. Equivalency: HIST 260.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
PHIL_V 260-L01	PHIL_V	260	L01	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of PHIL 260 or HIST 260. Equivalency: HIST 260.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 260-L02	PHIL_V	260	L02	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of PHIL 260 or HIST 260. Equivalency: HIST 260.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 260-L03	PHIL_V	260	L03	Science and Society in the Contemporary World	W1	An introduction to the historical development, conceptual foundations, and cultural significance of contemporary science. Themes will vary from year to year. Credit will be granted for only one of PHIL 260 or HIST 260. Equivalency: HIST 260.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 310-001	PHIL_V	310	001	The Philosophy of Plato	W1	A study of Plato's dialogues and his influence on subsequent philosophy. PHIL/CLST 211 or AMNE 235 and PHIL/CLST 212 or AMNE 236 are recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHIL_V 311-001	PHIL_V	311	001	The Philosophy of Aristotle	W2	A study of Aristotle's writings and his influence on subsequent philosophy. Recommended pre-requisite: PHIL 310.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 313-001	PHIL_V	313	001	Medieval Philosophy	W1	Survey of Western European thought from Augustine to the 14th century. Possible topics and authors include: Augustine; Abelard; the influence of Islam; the rediscovery of Aristotle; Aquinas; Scotus; Ockham. Credit will be granted for only one of PHIL 313 and RELG 328. Equivalency: RELG 328	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 313-002	PHIL_V	313	002	Medieval Philosophy	W2	Survey of Western European thought from Augustine to the 14th century. Possible topics and authors include: Augustine; Abelard; the influence of Islam; the rediscovery of Aristotle; Aquinas; Scotus; Ockham. Credit will be granted for only one of PHIL 313 and RELG 328. Equivalency: RELG 328	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 314-001	PHIL_V	314	001	Philosophy in the 17th Century	W1	Survey of 17th-century philosophy from Bacon to Leibniz, including the writings of Hobbes, Descartes, and Spinoza. The influence of science and religion on philosophy.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 315-001	PHIL_V	315	001	Philosophy in the 18th Century	W1	Survey of 18th-century philosophy from Locke to Kant, including the writings of Berkeley, Rousseau, and Hume. The influence of science and religion on philosophy.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 315-002	PHIL_V	315	002	Philosophy in the 18th Century	W2	Survey of 18th-century philosophy from Locke to Kant, including the writings of Berkeley, Rousseau, and Hume. The influence of science and religion on philosophy.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHIL_V 316-001	PHIL_V	316	001	Philosophy After 1800	W1	Survey of 19th and 20th century philosophy. May include Hegel, Schopenhauer, Nietzsche, Mill, Meinong, Brentano, the British Idealists, Russell, and Moore. Social and political currents in 19th century philosophical thought.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 316-002	PHIL_V	316	002	Philosophy After 1800	W2	Survey of 19th and 20th century philosophy. May include Hegel, Schopenhauer, Nietzsche, Mill, Meinong, Brentano, the British Idealists, Russell, and Moore. Social and political currents in 19th century philosophical thought.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 320-001	PHIL_V	320	001	Logic: Metatheory and Computability	W1	Continuation of PHIL 220. A system of deduction for predicate logic is selected for further study. Completeness of this system and other metatheoretic results are proved. Other topics include computability, recursive function theory, incompleteness and decidability. Recommended pre-requisite: one of PHIL 220, PHIL 222. PHIL 222 is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 321-001	PHIL_V	321	001	Induction, Decision and Game Theory	W1	Formal methods relevant to probabilistic and inductive reasoning. Decision theory, game theory, axiomatic probability theory and its interpretations, belief dynamics, simulation and modelling. Recommended pre-requisite: one of PHIL125, PHIL 220, PHIL 222 or instructor permission.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 321-002	PHIL_V	321	002	Induction, Decision and Game Theory	W2	Formal methods relevant to probabilistic and inductive reasoning. Decision theory, game theory, axiomatic probability theory and its interpretations, belief dynamics, simulation and modelling. Recommended pre-requisite: one of PHIL125, PHIL 220, PHIL 222 or instructor permission.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 324-001	PHIL_V	324	001	Philosophy of Logic	W2	Fundamental concepts and methods of logic; the logistic method, syntax and semantics; the conditional; entailment; consequence; modal logic; problems concerning extensionality and intentionality. Frege's distinction between sense and reference; Russell's theory of definite descriptions; Tarski's definition of truth. Recommended pre-requisite: one of PHIL 220, PHIL 222. PHIL 222 is recommended.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
PHIL_V 326-001	PHIL_V	326	001	Philosophy of Language I	W1	Philosophical discussion of language, meaning, and communication. Prerequisite: At least one of LING 201/PHIL 220/PHIL 222, plus 6 additional credits of PHIL/LING at the 200-level or above.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
PHIL_V 326-002	PHIL_V	326	002	Philosophy of Language I	W2	Philosophical discussion of language, meaning, and communication. Prerequisite: At least one of LING 201/PHIL 220/PHIL 222, plus 6 additional credits of PHIL/LING at the 200-level or above.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PHIL_V 330-001	PHIL_V	330	001	Social and Political Philosophy	W1	Theories of political and legal obligation and authority, legal reasoning, society and the state. Readings in classic and contemporary texts. Prerequisite: PHIL 230 is strongly recommended.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.

PHIL_V 330-002	PHIL_V	330	002	Social and Political Philosophy	W2	Theories of political and legal obligation and authority, legal reasoning, society and the state. Readings in classic and contemporary texts. Prerequisite: PHIL 230 is strongly recommended.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
PHIL_V 331-901	PHIL_V	331	901	Business and Professional Ethics	W1	Moral problems in contemporary business and professional practice, general moral theory, the law, and policy formation. Corporate social and environmental responsibility, employee rights, preferential hiring and affirmative action programs, conflicts of interest, advertising, whistle blowing and self-regulation.	In Person Learning	Arranged	Arranged
PHIL_V 331-902	PHIL_V	331	902	Business and Professional Ethics	W2	Moral problems in contemporary business and professional practice, general moral theory, the law, and policy formation. Corporate social and environmental responsibility, employee rights, preferential hiring and affirmative action programs, conflicts of interest, advertising, whistle blowing and self-regulation.	In Person Learning	Mon Wed Fri	5:00 p.m. - 6:00 p.m.
PHIL_V 331-903	PHIL_V	331	903	Business and Professional Ethics	W1	Moral problems in contemporary business and professional practice, general moral theory, the law, and policy formation. Corporate social and environmental responsibility, employee rights, preferential hiring and affirmative action programs, conflicts of interest, advertising, whistle blowing and self-regulation.	Online Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
PHIL_V 331-99A	PHIL_V	331	99A	Business and Professional Ethics	W1	Moral problems in contemporary business and professional practice, general moral theory, the law, and policy formation. Corporate social and environmental responsibility, employee rights, preferential hiring and affirmative action programs, conflicts of interest, advertising, whistle blowing and self-regulation.	Online Learning	Arranged	Arranged
PHIL_V 331-99C	PHIL_V	331	99C	Business and Professional Ethics	W2	Moral problems in contemporary business and professional practice, general moral theory, the law, and policy formation. Corporate social and environmental responsibility, employee rights, preferential hiring and affirmative action programs, conflicts of interest, advertising, whistle blowing and self-regulation.	Online Learning	Arranged	Arranged
PHIL_V 332-001	PHIL_V	332	001	Environmental Ethics	W1	Moral problems arising in the context of human relationships to nature and to non-human living things, considered in terms of both general moral theory and policy formation. Topics include moral standing, animal rights, obligations to future generations, pollution, hazardous materials, the depletion of natural resources and the treatment of non-human living things.	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
PHIL_V 332-901	PHIL_V	332	901	Environmental Ethics	W2	Moral problems arising in the context of human relationships to nature and to non-human living things, considered in terms of both general moral theory and policy formation. Topics include moral standing, animal rights, obligations to future generations, pollution, hazardous materials, the depletion of natural resources and the treatment of non-human living things.	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
PHIL_V 333-001	PHIL_V	333	001	Bio-Medical Ethics	W1	Moral problems arising in the health sciences, especially in medicine but also in biology, psychology, and social work. Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHIL_V 333-002	PHIL_V	333	002	Bio-Medical Ethics	W2	Moral problems arising in the health sciences, especially in medicine but also in biology, psychology, and social work. Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.	In Person Learning	Mon Wed Fri	6:00 p.m. - 7:00 p.m.
PHIL_V 333-99A	PHIL_V	333	99A	Bio-Medical Ethics	W1	Moral problems arising in the health sciences, especially in medicine but also in biology, psychology, and social work. Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.	Online Learning	Arranged	Arranged
PHIL_V 333-99B	PHIL_V	333	99B	Bio-Medical Ethics	W1	Moral problems arising in the health sciences, especially in medicine but also in biology, psychology, and social work. Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.	Online Learning	Arranged	Arranged
PHIL_V 333-99C	PHIL_V	333	99C	Bio-Medical Ethics	W2	Moral problems arising in the health sciences, especially in medicine but also in biology, psychology, and social work. Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.	Online Learning	Arranged	Arranged
PHIL_V 333-99D	PHIL_V	333	99D	Bio-Medical Ethics	W2	Moral problems arising in the health sciences, especially in medicine but also in biology, psychology, and social work. Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.	Online Learning	Arranged	Arranged
PHIL_V 334-001	PHIL_V	334	001	Sex, Gender and Philosophy	W1	Relationship between sex, gender, and philosophy. Topics may include ethics, epistemology, science, social relations, law, and personhood.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 334-002	PHIL_V	334	002	Sex, Gender and Philosophy	W2	Relationship between sex, gender, and philosophy. Topics may include ethics, epistemology, science, social relations, law, and personhood.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 335-001	PHIL_V	335	001	Power and Oppression	W1	Philosophical approaches to historical problems of inequality and social harm, with readings drawn from historical and contemporary sources. Topics to be studied may include slavery, colonialism, labour, and the position of women in society.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHIL_V 335-002	PHIL_V	335	002	Power and Oppression	W2	Philosophical approaches to historical problems of inequality and social harm, with readings drawn from historical and contemporary sources. Topics to be studied may include slavery, colonialism, labour, and the position of women in society.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHIL_V 337-001	PHIL_V	337	001	Ethics for the Sciences	W2	Philosophical exploration of ethical issues in the non-medical sciences, including topics such as intellectual integrity, responsible conduct of research, protection of human subjects, ethics of animal experimentation, and the social responsibilities of scientists. Credit will be granted for only one of ISCI 433 or PHIL 337.	Hybrid Learning	Tue	3:30 p.m. - 5:00 p.m.
PHIL_V 337-002	PHIL_V	337	002	Ethics for the Sciences	W2	Philosophical exploration of ethical issues in the non-medical sciences, including topics such as intellectual integrity, responsible conduct of research, protection of human subjects, ethics of animal experimentation, and the social responsibilities of scientists. Credit will be granted for only one of ISCI 433 or PHIL 337.	Hybrid Learning	Thu	3:30 p.m. - 5:00 p.m.
PHIL_V 338-001	PHIL_V	338	001	Philosophy of Law	W1	Concepts of law, constitution and sovereignty; law and morality; natural law theories and legal positivism; obligation, responsibility, and punishment. Prerequisite: Restricted to second- or higher-year standing.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.

PHIL_V 338-002	PHIL_V	338	002	Philosophy of Law	W2	Concepts of law, constitution and sovereignty; law and morality; natural law theories and legal positivism; obligation, responsibility, and punishment. Prerequisite: Restricted to second- or higher-year standing.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 339-001	PHIL_V	339	001	Philosophy of Art	W2	Topics include art and perception, art and reality, imagination, expression, censorship, and the role of art in human life.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 340-001	PHIL_V	340	001	Introduction to Metaphysics	W1	Topics in metaphysics such as the nature of physical reality, personal identity, the mind/body problem, free will, causation and action theory. Readings from classic and contemporary texts. Prerequisite: PHIL 240 is recommended.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHIL_V 340-002	PHIL_V	340	002	Introduction to Metaphysics	W2	Topics in metaphysics such as the nature of physical reality, personal identity, the mind/body problem, free will, causation and action theory. Readings from classic and contemporary texts. Prerequisite: PHIL 240 is recommended.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHIL_V 347-001	PHIL_V	347	001	Philosophy of Religion	W1	A critical and analytical examination of arguments for and arguments against the existence of God, and other related topics.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHIL_V 347-002	PHIL_V	347	002	Philosophy of Religion	W2	A critical and analytical examination of arguments for and arguments against the existence of God, and other related topics.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 347-003	PHIL_V	347	003	Philosophy of Religion	W2	A critical and analytical examination of arguments for and arguments against the existence of God, and other related topics.	Hybrid Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 347-004	PHIL_V	347	004	Philosophy of Religion	W1	A critical and analytical examination of arguments for and arguments against the existence of God, and other related topics.	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHIL_V 348-001	PHIL_V	348	001	Introduction to Continental Philosophy	W2	Major themes and figures in the Continental philosophy tradition; possible topics include 19th century precursors, 20th century philosophers, and comparisons between analytic and continental philosophy.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHIL_V 351-001	PHIL_V	351	001	Philosophical Perspectives on Cognitive Systems Research	W1	Philosophical exploration of questions and theories arising from research into the mind, as conducted in psychology, linguistics, and computer science. Prerequisite: 3 credits selected from any of PHIL 211, 212, 220, 222, 230, 235, 240, 250, 260, or COGS 200	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHIL_V 351-002	PHIL_V	351	002	Philosophical Perspectives on Cognitive Systems Research	W2	Philosophical exploration of questions and theories arising from research into the mind, as conducted in psychology, linguistics, and computer science. Prerequisite: 3 credits selected from any of PHIL 211, 212, 220, 222, 230, 235, 240, 250, 260, or COGS 200	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 360-001	PHIL_V	360	001	Introduction to History and Philosophy of Science	W2	An examination of historical, conceptual and methodological conditions of scientific knowledge through detailed consideration of important episodes in the history of science. Credit will be granted for only one of PHIL 360 or HIST 393	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 362-A_001	PHIL_V	362	A	A_001	W1	History and Philosophy of Economics from Aristotle to Adam Smith	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PHIL_V 363-A_001	PHIL_V	363	A	A_001	W2	History and Philosophy of Economics from Ricardo to Keynes	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PHIL_V 364-001	PHIL_V	364	001	Darwin, Evolution, and Modern History	W2	Darwin and the science of evolution in nineteenth and early twentieth century. Credit will be granted for only one of PHIL 364 or HIST 394. Equivalency: HIST 394	In Person Learning	Wed	3:00 p.m. - 6:00 p.m.
PHIL_V 364-DNU_001	PHIL_V	364	DNU_001	Darwin, Evolution, and Modern History	W1	Darwin and the science of evolution in nineteenth and early twentieth century. Credit will be granted for only one of PHIL 364 or HIST 394. Equivalency: HIST 394	In Person Learning	Arranged	Arranged
PHIL_V 369-A_001	PHIL_V	369	A	A_001	W2	Philosophy of Science	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
PHIL_V 371-001	PHIL_V	371	001	Foundations of Chinese Thought	W1	Early (pre 221 BCE) Chinese thought (Confucianism, Daoism, Mohism, Legalism), its contemporary implications, and the role of philosophy and religion in human flourishing. / Credit will only be granted for one of PHIL 371 or ASIA 371. Equivalency: ASIA371	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 371-002	PHIL_V	371	002	Foundations of Chinese Thought	W2	Early (pre 221 BCE) Chinese thought (Confucianism, Daoism, Mohism, Legalism), its contemporary implications, and the role of philosophy and religion in human flourishing. / Credit will only be granted for one of PHIL 371 or ASIA 371. Equivalency: ASIA371	Online Learning	Mon	2:00 p.m. - 3:30 p.m.
PHIL_V 375-901	PHIL_V	375	901	Philosophy and Literature	W1	Philosophical issues in works of literature or arising from theories of literary interpretation. Topics include issues relating to relativism, the nature of morality, free will, personal identity, the nature of the emotions.	In Person Learning	Tue Thu	6:30 p.m. - 8:00 p.m.
PHIL_V 375-902	PHIL_V	375	902	Philosophy and Literature	W2	Philosophical issues in works of literature or arising from theories of literary interpretation. Topics include issues relating to relativism, the nature of morality, free will, personal identity, the nature of the emotions.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
PHIL_V 378-001	PHIL_V	378	001	Philosophical Wisdom of Early India	W1	Epistemological and ontological thought from the Vedic Period to the period of the rise of philosophical schools or systems. Philosophy in the Mahabharata, Gita; early Buddhist and Jain views on knowledge and reality; views on language. Credit will be granted for only one of PHIL 378 or ASIA 378. Equivalency: ASIA 378	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

PHIL_V 385-001	PHIL_V	385		001	Existentialism	W1	Meaning, identity and alienation as explored in the works for example of Kierkegaard, Dostoyevsky, Tolstoy, Sartre, and Camus.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHIL_V 385-002	PHIL_V	385		002	Existentialism	W2	Meaning, identity and alienation as explored in the works for example of Kierkegaard, Dostoyevsky, Tolstoy, Sartre, and Camus.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 388-001	PHIL_V	388		001	Classical South Asian Philosophy	W2	Debates on issues of epistemology, language and ontology among the philosophical traditions of classical South Asia. PHIL 378/ASIA 378 is recommended. Credit will be granted for only one of PHIL 388 or ASIA 388. Equivalency: ASIA 388	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHIL_V 390-A_001	PHIL_V	390	A	A_001	Honours Tutorial	W1	For students in third-year Honours. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PHIL_V 390-A_002	PHIL_V	390	A	A_002	Honours Tutorial	W2	For students in third-year Honours. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PHIL_V 400-001	PHIL_V	400		001	Morals, Politics and the Individual	W2	Introduction to major themes in moral and political philosophy. Primarily for fourth-year and graduate students who have had no previous course in Philosophy. Credit will be granted for only one of PHIL 400, PHIL 100 or PHIL 101 and 102.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHIL_V 416-A_001	PHIL_V	416	A	A_001	Topics in 19th-Century Philosophy	W1	Study of a major 19th-century philosopher such as Hegel, Mill or Nietzsche, or school, such as German Idealism. Recommended pre-requisites: one of PHIL 314, PHIL 315, PHIL 316, PHIL 340.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PHIL_V 431-001	PHIL_V	431		001	Topics in Social and Political Philosophy	W2	Central concepts and problems in political life and thought including obligation, citizenship, representation, justice; equality; civil rights and liberty; disobedience. Prerequisite: 9 credits of PHIL/POLI at the 200-level or above.	In Person Learning	Arranged	Arranged
PHIL_V 432-001	PHIL_V	432		001	Topics in Ethical Theory	W1	Classic or contemporary works in ethical theory. Prerequisite: PHIL 230. 9 credits of PHIL at the 200-level or above	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 440-001	PHIL_V	440		001	Topics in Epistemology	W2	Analysis of the concept of knowledge; problems of justifying ordinary and basic empirical beliefs. Recommended pre-requisite: PHIL 240.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHIL_V 441-001	PHIL_V	441		001	Philosophy of Perception	W1	The contribution of the senses to knowledge of the external world; the nature of perception and its contribution to empirical knowledge. Recommended pre-requisites: Either (a) PHIL 240 or (b) COGS 200. If COGS 200, accompanied by 3 credits in PHIL at the 200-level or above.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 441-002	PHIL_V	441		002	Philosophy of Perception	W2	The contribution of the senses to knowledge of the external world; the nature of perception and its contribution to empirical knowledge. Recommended pre-requisites: Either (a) PHIL 240 or (b) COGS 200. If COGS 200, accompanied by 3 credits in PHIL at the 200-level or above.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHIL_V 448-001	PHIL_V	448		001	Topics in Continental Philosophy	W2	A study of European philosophers from amongst Husserl, Heidegger, Habermas, Foucault, Derrida, Lacan, Levinas, and others.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHIL_V 451-001	PHIL_V	451		001	Philosophy of Mind	W1	The nature of the mental and physical; the relation between minds and bodies; the character of psychological explanation. Recommended pre-requisites: Either (a) PHIL 240 or (b) COGS 200. If COGS 200, accompanied by 3 credits of PHIL at the 200-level or above.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHIL_V 451-002	PHIL_V	451		002	Philosophy of Mind	W2	The nature of the mental and physical; the relation between minds and bodies; the character of psychological explanation. Recommended pre-requisites: Either (a) PHIL 240 or (b) COGS 200. If COGS 200, accompanied by 3 credits of PHIL at the 200-level or above.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PHIL_V 455-A_001	PHIL_V	455	A	A_001	Topics in the Philosophy of Cognitive Science	W1	Philosophical topics in the cognitive sciences, such as empiricism vs. nativism, consciousness, mental representation, cognitive architecture, language & thought, and situated cognition. Prerequisite: One of PHIL 441, PHIL 451. Or any 6 credits of Philosophy at the 200-level or above (except PHIL 220, PHIL 222, PHIL 320).	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHIL_V 455-A_002	PHIL_V	455	A	A_002	Topics in the Philosophy of Cognitive Science	W2	Philosophical topics in the cognitive sciences, such as empiricism vs. nativism, consciousness, mental representation, cognitive architecture, language & thought, and situated cognition. Prerequisite: One of PHIL 441, PHIL 451. Or any 6 credits of Philosophy at the 200-level or above (except PHIL 220, PHIL 222, PHIL 320).	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
PHIL_V 461-001	PHIL_V	461		001	Philosophy of Social Science	W2	Topics in the philosophy of science of special concern to the social sciences: the problem of objectivity, the use of models and evidence, causation and causal reasoning, formal methods, the status of social kinds and norms, scientific explanation, laws. Prerequisite: 9 credits at the 200-level or above from philosophy, anthropology, geography, economics, history, political science, psychology or sociology.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PHIL_V 464-001	PHIL_V	464		001	Philosophy of Biology	W1	Methodological, historical, philosophical and social science questions about biology. Prerequisite: Fourth-year standing in any degree program or 9 credits of philosophy.	In Person Learning	Thu	11:00 a.m. - 2:00 p.m.
PHIL_V 469-001	PHIL_V	469		001	Topics in Philosophy of Science	W1	Topics such as probability and induction; foundations of measurement; theory construction. Recommended pre-requisite: PHIL 369.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PHIL_V 470-001	PHIL_V	470		001	Comparative Conceptions of the Self	W1	Ways in which the 'self' has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Xunzi (Hsn-tzu), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be granted for only one of PHIL 470 or ASIA 470. Equivalency: ASIA 470	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PHIL_V 470-002	PHIL_V	470		002	Comparative Conceptions of the Self	W2	Ways in which the 'self' has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Xunzi (Hsn-tzu), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be granted for only one of PHIL 470 or ASIA 470. Equivalency: ASIA 470	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

PHIL_V 485-001	PHIL_V	485		001	Directed Reading	W1	Same as PHIL 486-9.	In Person Learning	Arranged	Arranged
PHIL_V 485-002	PHIL_V	485		002	Directed Reading	W1	Same as PHIL 486-9.	Multi-access Learning	Arranged	Arranged
PHIL_V 490-A_001	PHIL_V	490	A	A_001	Honours Tutorial	W2	For students in fourth-year Honours. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PHIL_V 490-A_002	PHIL_V	490	A	A_002	Honours Tutorial	W2	For students in fourth-year Honours. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PHIL_V 491-A_001	PHIL_V	491	A	A_001	Seminar for Majors in Philosophy	W1	Selected problems in philosophy, with attention to methods of research. Check with the department for specific topics. Primarily for fourth-year Philosophy Major students, but also open to Philosophy Honours.	In Person Learning	Arranged	Arranged
PHIL_V 491-A_002	PHIL_V	491	A	A_002	Seminar for Majors in Philosophy	W2	Selected problems in philosophy, with attention to methods of research. Check with the department for specific topics. Primarily for fourth-year Philosophy Major students, but also open to Philosophy Honours.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
PHIL_V 510-A_001	PHIL_V	510	A	A_001	Ancient Philosophy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PHIL_V 530-A_001	PHIL_V	530	A	A_001	Moral Philosophy	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
PHIL_V 531-A_001	PHIL_V	531	A	A_001	Political Philosophy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	6:00 p.m. - 9:00 p.m.
PHIL_V 550-A_001	PHIL_V	550	A	A_001	Metaphysics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:00 p.m. - 6:00 p.m.
PHIL_V 551-A_001	PHIL_V	551	A	A_001	Philosophy of Mind	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
PHIL_V 551-A_002	PHIL_V	551	A	A_002	Philosophy of Mind	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
PHIL_V 560-A_001	PHIL_V	560	A	A_001	Philosophy of Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PHIL_V 561-A_001	PHIL_V	561	A	A_001	Topics in Science and Technology Studies	W2	Advanced seminar on a theme or topic of interest to both STS and Philosophy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PHIL_V 581-A_001	PHIL_V	581	A	A_001	Problems	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
PHIL_V 599-001	PHIL_V	599		001	MA Thesis	W1	This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Arranged	Arranged
PHIL_V 599-002	PHIL_V	599		002	MA Thesis	W2	This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Arranged	Arranged
PHIL_V 599-003	PHIL_V	599		003	MA Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Arranged	Arranged
PHIL_V 699-001	PHIL_V	699		001	Doctoral Dissertation	W1		Multi-access Learning	Arranged	Arranged
PHIL_V 699-002	PHIL_V	699		002	Doctoral Dissertation	W2		Multi-access Learning	Arranged	Arranged
PHIL_V 699-003	PHIL_V	699		003	Doctoral Dissertation	W1-2		Multi-access Learning	Arranged	Arranged
PHRM_V 100-001	PHRM_V	100		001	Foundations of Pharmacy	W1	Scientific concepts and pharmacy practice principles. Role of the pharmacist, patient assessment skills, professional identity, communication skills, and an understanding of legal and ethical responsibilities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:00 p.m. - 5:30 p.m.
PHRM_V 100-L01	PHRM_V	100		L01	Foundations of Pharmacy	W1	Scientific concepts and pharmacy practice principles. Role of the pharmacist, patient assessment skills, professional identity, communication skills, and an understanding of legal and ethical responsibilities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.

PHRM_V 100-L02	PHRM_V	100	L02	Foundations of Pharmacy	W1	Scientific concepts and pharmacy practice principles. Role of the pharmacist, patient assessment skills, professional identity, communication skills, and an understanding of legal and ethical responsibilities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 100-L03	PHRM_V	100	L03	Foundations of Pharmacy	W1	Scientific concepts and pharmacy practice principles. Role of the pharmacist, patient assessment skills, professional identity, communication skills, and an understanding of legal and ethical responsibilities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 100-L04	PHRM_V	100	L04	Foundations of Pharmacy	W1	Scientific concepts and pharmacy practice principles. Role of the pharmacist, patient assessment skills, professional identity, communication skills, and an understanding of legal and ethical responsibilities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 100-L05	PHRM_V	100	L05	Foundations of Pharmacy	W1	Scientific concepts and pharmacy practice principles. Role of the pharmacist, patient assessment skills, professional identity, communication skills, and an understanding of legal and ethical responsibilities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 100-L06	PHRM_V	100	L06	Foundations of Pharmacy	W1	Scientific concepts and pharmacy practice principles. Role of the pharmacist, patient assessment skills, professional identity, communication skills, and an understanding of legal and ethical responsibilities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 111-001	PHRM_V	111	001	Medication Management I	W2	Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology; eyes, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.	In Person Learning	Fri	1:00 p.m. - 5:00 p.m.
PHRM_V 111-L01	PHRM_V	111	L01	Medication Management I	W2	Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology; eyes, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 111-L02	PHRM_V	111	L02	Medication Management I	W2	Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology; eyes, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 111-L03	PHRM_V	111	L03	Medication Management I	W2	Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology; eyes, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 111-L04	PHRM_V	111	L04	Medication Management I	W2	Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology; eyes, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 111-L05	PHRM_V	111	L05	Medication Management I	W2	Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology; eyes, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 111-L06	PHRM_V	111	L06	Medication Management I	W2	Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology; eyes, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.	In Person Learning	Tue Wed	2:00 p.m. - 5:30 p.m.
PHRM_V 131-001	PHRM_V	131	001	Study Design and Interpretation I	W2	Principles of clinical study design, focusing on biostatistical foundations, randomized controlled trials, and systematic review of randomized controlled trials. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
PHRM_V 141-001	PHRM_V	141	001	Seminar: Pharmacists in Practice I	W1	Current and future roles for pharmacists and controversies in pharmacy practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
PHRM_V 161-001	PHRM_V	161	001	Technology in Healthcare	W2	Knowledge and skills related to the role and applications of technology in health care. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
PHRM_V 211-001	PHRM_V	211	001	Medication Management II	W1	Modules and integration activities focusing on respiratory and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 231.	In Person Learning	Fri	1:00 p.m. - 5:00 p.m.
PHRM_V 211-L01	PHRM_V	211	L01	Medication Management II	W1	Modules and integration activities focusing on respiratory and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 231.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
PHRM_V 211-L02	PHRM_V	211	L02	Medication Management II	W1	Modules and integration activities focusing on respiratory and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 231.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
PHRM_V 211-L03	PHRM_V	211	L03	Medication Management II	W1	Modules and integration activities focusing on respiratory and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 231.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
PHRM_V 211-L04	PHRM_V	211	L04	Medication Management II	W1	Modules and integration activities focusing on respiratory and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 231.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
PHRM_V 211-L05	PHRM_V	211	L05	Medication Management II	W1	Modules and integration activities focusing on respiratory and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 231.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
PHRM_V 211-L06	PHRM_V	211	L06	Medication Management II	W1	Modules and integration activities focusing on respiratory and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 231.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.
PHRM_V 212-001	PHRM_V	212	001	Medication Management III	W2	Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 211.	In Person Learning	Wed	1:00 p.m. - 5:00 p.m.

PHRM_V 212-L01	PHRM_V	212	L01	Medication Management III	W2	Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 211.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.	
PHRM_V 212-L02	PHRM_V	212	L02	Medication Management III	W2	Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 211.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.	
PHRM_V 212-L03	PHRM_V	212	L03	Medication Management III	W2	Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 211.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.	
PHRM_V 212-L04	PHRM_V	212	L04	Medication Management III	W2	Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 211.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.	
PHRM_V 212-L05	PHRM_V	212	L05	Medication Management III	W2	Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 211.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.	
PHRM_V 212-L06	PHRM_V	212	L06	Medication Management III	W2	Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 211.	In Person Learning	Thu	2:00 p.m. - 5:30 p.m.	
PHRM_V 221-001	PHRM_V	221	001	Nutrition for Pharmacists	W2	Foundations of nutrition, nutrition for healthy individuals through the lifespan, and selected clinical applications of nutrition in pharmacy practice. Prerequisite: PHRM 171.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.	
PHRM_V 231-001	PHRM_V	231	001	Study Design and Interpretation II	W1	Principles of screening and diagnostic tests, clinical prediction rules, clinical practice guidelines, conflicts of interest, economic evaluation of therapeutics and medical technologies, harm-benefit analysis, and how to incorporate the best available evidence into practice. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.	
PHRM_V 241-001	PHRM_V	241	001	Seminar: Pharmacists in Practice II	W1	Current and future roles for pharmacists and controversies in pharmacy practice, focusing on the roles and training opportunities for pharmacists in specialty areas of outpatient and inpatient practice. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 171.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.	
PHRM_V 251-001	PHRM_V	251	001	Institutional Practice Skills	W2	Preparation for experiential learning in the hospital setting. Focuses on enhancing familiarity with the care environment and developing skills suited for students to apply to patient care during institutional experiential rotations. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 171.	In Person Learning	Wed (Alternate weeks)	8:00 a.m. - 10:00 a.m.	
PHRM_V 252-001	PHRM_V	252	001	Clinical Skills: Administration of Injections	W1	Training for authorization to administer injections. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 12:00 p.m.	
PHRM_V 252-002	PHRM_V	252	002	Clinical Skills: Administration of Injections	W2	Training for authorization to administer injections. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	8:00 a.m. - 12:00 p.m.	
PHRM_V 261-001	PHRM_V	261	001	Indigenous Health and Cultural Safety	W1	Overview of Indigenous health in Canada and the role a pharmacist can have in collaborating with Indigenous communities in providing culturally safe care and healing. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 171.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.	
PHRM_V 270-001	PHRM_V	270	001	Community Service Learning II	W1	Service learning activities with external community partner sites and members. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 171.	In Person Learning	Tue	2:00 p.m. - 5:30 p.m.	
PHRM_V 270-002	PHRM_V	270	002	Community Service Learning II	W2	Service learning activities with external community partner sites and members. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 171.	In Person Learning	Tue	1:30 p.m. - 5:30 p.m.	
PHRM_V 300-C_001	PHRM_V	300	C	C_001	Special Topics	W2		In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PHRM_V 300-D_001	PHRM_V	300	D	D_001	Special Topics	W1		In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PHRM_V 300-E_001	PHRM_V	300	E	E_001	Special Topics	W1		In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHRM_V 300-H_001	PHRM_V	300	H	H_001	PHRM 311 Audit Temp Course	W1		In Person Learning	Arranged	Arranged
PHRM_V 302-A_001	PHRM_V	302	A	A_001	Directed Studies in Clinical Pharmacy	W1	Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
PHRM_V 302-B_001	PHRM_V	302	B	B_001	Directed Studies in Clinical Pharmacy	W1	Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged
PHRM_V 302-B_002	PHRM_V	302	B	B_002	Directed Studies in Clinical Pharmacy	W2	Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics. The credit value for this course will be determined in consultation with the student prior to the registration.	In Person Learning	Arranged	Arranged

PHRM_V 302-B_003	PHRM_V	302	B	B_003	Directed Studies in Clinical Pharmacy	W1-2	Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 302-C_001	PHRM_V	302	C	C_001	Directed Studies in Clinical Pharmacy	W1	Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 302-C_002	PHRM_V	302	C	C_002	Directed Studies in Clinical Pharmacy	W1	Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 302-E_003	PHRM_V	302	E	E_003	Directed Studies in Clinical Pharmacy	W1-2	Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-B_001	PHRM_V	304	B	B_001	Directed Studies in Pharmacy Education	W1	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-B_002	PHRM_V	304	B	B_002	Directed Studies in Pharmacy Education	W1	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-B_003	PHRM_V	304	B	B_003	Directed Studies in Pharmacy Education	W1	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-B_004	PHRM_V	304	B	B_004	Directed Studies in Pharmacy Education	W1	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-B_005	PHRM_V	304	B	B_005	Directed Studies in Pharmacy Education	W2	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-B_006	PHRM_V	304	B	B_006	Directed Studies in Pharmacy Education	W1-2	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-B_007	PHRM_V	304	B	B_007	Directed Studies in Pharmacy Education	W1-2	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-E_001	PHRM_V	304	E	E_001	Directed Studies in Pharmacy Education	W1-2	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 304-E_002	PHRM_V	304	E	E_002	Directed Studies in Pharmacy Education	W1-2	Individual assignments involving library and scholarly inquiry related to pharmacy education. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 306-B_001	PHRM_V	306	B	B_001	Directed Studies in Pharmacy Practice	W1-2	Individual assignments involving library and field work investigations of problems associated with pharmacy practice. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 306-B_002	PHRM_V	306	B	B_002	Directed Studies in Pharmacy Practice	W1-2	Individual assignments involving library and field work investigations of problems associated with pharmacy practice. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 307-B_001	PHRM_V	307	B	B_001	Directed Studies in Epidemiology and Health Outcomes	W1	Individual assignments involving scholarly inquiry related to epidemiology or health outcomes. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 307-B_002	PHRM_V	307	B	B_002	Directed Studies in Epidemiology and Health Outcomes	W1	Individual assignments involving scholarly inquiry related to epidemiology or health outcomes. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 307-B_003	PHRM_V	307	B	B_003	Directed Studies in Epidemiology and Health Outcomes	W1	Individual assignments involving scholarly inquiry related to epidemiology or health outcomes. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHRM_V 311-001	PHRM_V	311		001	Medication Management IV	W1	Modules and integration activities focusing on psychiatry; gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
PHRM_V 311-L01	PHRM_V	311		L01	Medication Management IV	W1	Modules and integration activities focusing on psychiatry; gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 311-L02	PHRM_V	311		L02	Medication Management IV	W1	Modules and integration activities focusing on psychiatry; gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 311-L03	PHRM_V	311		L03	Medication Management IV	W1	Modules and integration activities focusing on psychiatry; gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 311-L04	PHRM_V	311		L04	Medication Management IV	W1	Modules and integration activities focusing on psychiatry; gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.

PHRM_V 311-L05	PHRM_V	311	L05	Medication Management IV	W1	Modules and integration activities focusing on psychiatry; gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 311-L06	PHRM_V	311	L06	Medication Management IV	W1	Modules and integration activities focusing on psychiatry; gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 312-001	PHRM_V	312	001	Medication Management V	W2	Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
PHRM_V 312-L01	PHRM_V	312	L01	Medication Management V	W2	Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 312-L02	PHRM_V	312	L02	Medication Management V	W2	Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 312-L03	PHRM_V	312	L03	Medication Management V	W2	Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 312-L04	PHRM_V	312	L04	Medication Management V	W2	Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 312-L05	PHRM_V	312	L05	Medication Management V	W2	Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 312-L06	PHRM_V	312	L06	Medication Management V	W2	Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Mon	2:00 p.m. - 5:30 p.m.
PHRM_V 322-001	PHRM_V	322	001	Peer Teaching in Pharmacy Skills	W1-2	Development and delivery of patient counselling role-playing activities.	In Person Learning	Arranged	Arranged
PHRM_V 323-001	PHRM_V	323	001	Pharmaceutical Care in Indigenous Health	W2	Indigenous health in Canada and the role pharmacists' cultural humility and safety can play when collaborating with other health professionals and Indigenous communities to provide care and healing. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PHRM_V 324-001	PHRM_V	324	001	Primary Care Pharmacy Practice	W1	Strategies for leveraging opportunities and addressing barriers to effective pharmacist integration into multidisciplinary primary care teams and optimizing patient care. Co-requisite: PHRM 311.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PHRM_V 325-001	PHRM_V	325	001	Clinical Pharmacokinetics	W1	Lectures and discussions of topics on the application of pharmacokinetic principles and the use of therapeutic drug level monitoring in clinical pharmacy practice. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PHRM_V 326-001	PHRM_V	326	001	Renal Pharmacotherapeutics	W1	Case-based approach to the pathophysiology, pharmacology, clinical pharmacokinetics, and pharmacotherapy in nephrology with emphasis on the integration and application of fundamental principles to clinical situations in class. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHRM_V 327-001	PHRM_V	327	001	Toxicology and Precision Medicine	W1	Basic principles of toxicology; toxicity of pharmaceuticals, and precision medicine approaches to mitigate toxicity. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PHRM_V 328-001	PHRM_V	328	001	Pharmacology of Drugs of Misuse and Abuse	W1	Biological, pharmacological, and psychological aspects of drugs of misuse and abuse. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PHRM_V 329-001	PHRM_V	329	001	Leadership Experience Applied to Pharmacy (LEAP)	W1-2	Leadership skills in preparation for the practice of pharmacy in direct or non-direct patient care settings and contexts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 12:00 p.m.
PHRM_V 330-001	PHRM_V	330	001	Pharmacy Practice in Acute and Critically Ill Patients	W2	Pharmaceutical care concepts for managing acute and critically ill patients. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing and a combined grade average of 70% in PHRM 211 and PHRM 212.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PHRM_V 332-001	PHRM_V	332	001	Practical Applications of Pharmacoepidemiology & Health Economics	W2	Principles and methods of collecting epidemiological and economic evidence used to assess the value of pharmaceuticals and services provided by pharmacists. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHRM_V 333-001	PHRM_V	333	001	Pharmacotherapy in Oncology	W2	Common oncological diseases and their drug treatment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PHRM_V 340-001	PHRM_V	340	001	Pain Research and Therapy	W2	Basic mechanisms and the clinical management of acute and chronic pain. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third Year standing. Current and potential roles for pharmacists, and contemporary issues in pharmacy practice. Focus on the role of pharmacists as patient educators, researchers and collaborators in interprofessional teams. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM 271, PHRM 272.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHRM_V 341-001	PHRM_V	341	001	Seminar: Pharmacists in Practice III	W2	Current issues in obesity and diabetes from pathophysiology to patient care, with a focus on healthcare quality improvement, patient safety, and optimizing outcomes. Prerequisite: Third-year standing. Equivalency: PHAR 546	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
PHRM_V 346-001	PHRM_V	346	001	Diabesity	W2	Current issues in obesity and diabetes from pathophysiology to patient care, with a focus on healthcare quality improvement, patient safety, and optimizing outcomes. Prerequisite: Third-year standing. Equivalency: PHAR 546	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.

PHRM_V 351-001	PHRM_V	351	001	Practice Management and Leadership	W1	Application of management and leadership principles and skills to pharmacy operations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 271, PHRM 272.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
PHRM_V 441-001	PHRM_V	441	001	Seminar: Advanced Topics in Pharmacy Practice	W1	Pharmacists in practice, emerging pharmacy practice issues and pharmacists as preceptors. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Arranged	Arranged
PHRM_V 441-002	PHRM_V	441	002	Seminar: Advanced Topics in Pharmacy Practice	W2	Pharmacists in practice, emerging pharmacy practice issues and pharmacists as preceptors. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Arranged	Arranged
PHRM_V 450-001	PHRM_V	450	001	PharmD Seminar	W1	Seminar course about current and potential roles for pharmacists. Students will also deliver an individual and a group seminar. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHRM_V 451-001	PHRM_V	451	001	Critical Appraisal of Pharmacotherapy Literature	W2	Principles of clinical study design, focusing on randomized controlled trials, systematic reviews, epidemiologic studies (cohort, case-control), pharmaco-economic analyses, clinical prediction rules, and guidelines. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHRM_V 452-001	PHRM_V	452	001	Patient Assessment Skills	W2	Principles and practices of patient assessment, applied to the monitoring of drug efficacy and toxicity. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHRM_V 453-PL1	PHRM_V	453	PL1	Applied Pharmacokinetics and Pharmacogenomics	W1	Pharmacokinetic monitoring of drug therapy in common clinical situations with foundations for application to other drugs. Pharmacogenomics and personalized medicine principles and applications to practice. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHRM_V 453-PL2	PHRM_V	453	PL2	Applied Pharmacokinetics and Pharmacogenomics	W2	Pharmacokinetic monitoring of drug therapy in common clinical situations with foundations for application to other drugs. Pharmacogenomics and personalized medicine principles and applications to practice. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHRM_V 454-001	PHRM_V	454	001	Practice Management	W2	Values, concepts, issues and responsibilities of individuals exercising leadership and management roles in pharmacy practice and health care settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHRM_V 462-001	PHRM_V	462	001	Pharmacotherapeutics 2	W1-2	Respirology, dermatology, and ears, eyes, nose, and throat. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	In Person Learning	Arranged	Arranged
PHRM_V 462-002	PHRM_V	462	002	Pharmacotherapeutics 2	W2	Respirology, dermatology, and ears, eyes, nose, and throat. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	In Person Learning	Arranged	Arranged
PHRM_V 463-001	PHRM_V	463	001	Pharmacotherapeutics 3	W1	Cardiovascular disorders. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	In Person Learning	Arranged	Arranged
PHRM_V 464-001	PHRM_V	464	001	Pharmacotherapeutics 4	W1	Infectious diseases. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	In Person Learning	Arranged	Arranged
PHRM_V 466-001	PHRM_V	466	001	Pharmacotherapeutics 6	W1	Gastroenterology and musculoskeletal disorders. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	In Person Learning	Arranged	Arranged
PHRM_V 467-001	PHRM_V	467	001	Pharmacotherapeutics 7	W1	Genitourinary disorders, reproductive health, endocrinology, and nephrology. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	Online Learning	Arranged	Arranged
PHRM_V 468-001	PHRM_V	468	001	Pharmacotherapeutics 8	W1	Oncology, hematology, and toxicology. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	Online Learning	Arranged	Arranged
PHRM_V 469-001	PHRM_V	469	001	Pharmacotherapeutics 9	W2	Acute and critical care of nephrology, neurology, cardiovascular disorders, gastroenterology, infectious diseases, and respirology. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.	In Person Learning	Arranged	Arranged
PHRM_V 471-001	PHRM_V	471	001	Outpatient Advanced Pharmacy Practice Experience	W1	Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient settings. Patient care will be provided for a wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Mon Tue Wed Thu Fri	9:00 a.m. - 5:30 p.m.
PHRM_V 471-002	PHRM_V	471	002	Outpatient Advanced Pharmacy Practice Experience	W1	Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient settings. Patient care will be provided for a wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Arranged	Arranged
PHRM_V 471-003	PHRM_V	471	003	Outpatient Advanced Pharmacy Practice Experience	W1	Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient settings. Patient care will be provided for a wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Arranged	Arranged
PHRM_V 471-004	PHRM_V	471	004	Outpatient Advanced Pharmacy Practice Experience	W2	Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient settings. Patient care will be provided for a wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Arranged	Arranged
PHRM_V 471-005	PHRM_V	471	005	Outpatient Advanced Pharmacy Practice Experience	W2	Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient settings. Patient care will be provided for a wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Arranged	Arranged
PHRM_V 471-006	PHRM_V	471	006	Outpatient Advanced Pharmacy Practice Experience	W2	Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient settings. Patient care will be provided for a wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.	In Person Learning	Arranged	Arranged









PHRM_V 521-001	PHRM_V	521	001	Evidence-Informed Decision-Making in Healthcare	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
PHRM_V 522-001	PHRM_V	522	001	Contemporary Leadership Issues in Pharmacy	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
PHTH_V 511-001	PHTH_V	511	001	Pathology for Physical Therapy I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 1:00 p.m.
PHTH_V 514-001	PHTH_V	514	001	Clinical Practice I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 514-L01	PHTH_V	514	L01	Clinical Practice I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	7:00 a.m. - 7:30 a.m.
PHTH_V 516-001	PHTH_V	516	001	Clinical Decision-Making I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 5:00 p.m.
PHTH_V 517-001	PHTH_V	517	001	Exercise and Movement I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 11:00 a.m.
PHTH_V 517-002	PHTH_V	517	002	Exercise and Movement I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	8:00 a.m. - 11:00 a.m.
PHTH_V 517-L01	PHTH_V	517	L01	Exercise and Movement I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	7:00 a.m. - 7:30 a.m.
PHTH_V 521-001	PHTH_V	521	001	Pathology for Physical Therapy II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 11:00 a.m.
PHTH_V 521-002	PHTH_V	521	002	Pathology for Physical Therapy II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 3:00 p.m.
PHTH_V 524-001	PHTH_V	524	001	Clinical Practice II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 526-001	PHTH_V	526	001	Clinical Decision Making II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	11:30 a.m. - 1:30 p.m.
PHTH_V 527-001	PHTH_V	527	001	Exercise and Movement II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Fri	8:00 a.m. - 11:00 a.m.
PHTH_V 527-L01	PHTH_V	527	L01	Exercise and Movement II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	7:00 a.m. - 7:30 a.m.
PHTH_V 528-001	PHTH_V	528	001	Case-based Integration	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 531-001	PHTH_V	531	001	Pathology for Physical Therapy III	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 534-001	PHTH_V	534	001	Clinical Practice III	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 544-001	PHTH_V	544	001	Clinical Practice IVa	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 545-001	PHTH_V	545	001	Clinical Practice IVb	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	8:00 a.m. - 12:00 p.m.
PHTH_V 552-001	PHTH_V	552	001	Rehabilitation Research	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 554-001	PHTH_V	554	001	Clinical Practice V	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 564-001	PHTH_V	564	001	Clinical Practice VIa	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	7:00 a.m. - 8:00 a.m.

PHTH_V 565-001	PHTH_V	565	001	Clinical Practice VIb	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 574-001	PHTH_V	574	001	Clinical Practice VII	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 574-002	PHTH_V	574	002	Clinical Practice VII	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 576-001	PHTH_V	576	001	Clinical Decision Making V	W1-2	Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 576-002	PHTH_V	576	002	Clinical Decision Making V	W1-2	Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHTH_V 580-001	PHTH_V	580	001	Orthopaedic Clinical Reasoning and Skills	W2	Restricted to students in the Graduate Certificate in Orthopaedic Manipulative Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. Corequisite: PHTH 581.	In Person Learning	Arranged	Arranged
PHTH_V 580-002	PHTH_V	580	002	Orthopaedic Clinical Reasoning and Skills	W1	Restricted to students in the Graduate Certificate in Orthopaedic Manipulative Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. Corequisite: PHTH 581.	In Person Learning	Arranged	Arranged
PHTH_V 581-001	PHTH_V	581	001	Evidence and Theory in Musculoskeletal Physical Therapy	W2	Restricted to students in the Graduate Certificate in Orthopaedic Musculoskeletal Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. Corequisite: PHTH 580.	In Person Learning	Arranged	Arranged
PHTH_V 581-002	PHTH_V	581	002	Evidence and Theory in Musculoskeletal Physical Therapy	W1	Restricted to students in the Graduate Certificate in Orthopaedic Musculoskeletal Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. Corequisite: PHTH 580.	In Person Learning	Arranged	Arranged
PHYS_V 100-101	PHYS_V	100	101	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
PHYS_V 100-102	PHYS_V	100	102	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHYS_V 100-103	PHYS_V	100	103	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHYS_V 100-9AR	PHYS_V	100	9AR	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Arranged	Arranged
PHYS_V 100-T1A	PHYS_V	100	T1A	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Wed	8:00 a.m. - 10:00 a.m.
PHYS_V 100-T1C	PHYS_V	100	T1C	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.
PHYS_V 100-T1D	PHYS_V	100	T1D	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Wed	11:00 a.m. - 1:00 p.m.
PHYS_V 100-T1E	PHYS_V	100	T1E	Introductory Physics	W1	Kinematics, force, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance; electricity. Students with credit for Physics 12 may not obtain credit for this course unless they took AP, IB, or A-level Physics and were offered advanced credit for PHYS 100. [3-0-2] Prerequisite: Not open to students with credit for PHYS 12. Principles of Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.



PHYS_V 106-101	PHYS_V	106	101	Enriched Physics 1 (lecture)	W1	Classical mechanics including conservation laws, angular momentum of rigid bodies and simple harmonic motion, wave phenomena, with an introduction to special relativity, quantum mechanics, nuclear physics, statistical mechanics and solid state physics. [3-0-1] Prerequisite: Either (a) a score more than 85% in all of PHYS 12, MATH 12 or (b) a score more than 85% in all of PHYS 12, PREC 12 or (c) a score more than 85% in all of PHYS 12, CALC 12 or (d) a score more than 85% in PHYS 100. PHYS 12 = Physics 12; MATH 12 = Principles of Mathematics 12; PREC 12 = Pre-Calculus 12; CALC 12 = Calculus 12. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHYS_V 106-T1A	PHYS_V	106	T1A	Enriched Physics 1 (lecture)	W1	Classical mechanics including conservation laws, angular momentum of rigid bodies and simple harmonic motion, wave phenomena, with an introduction to special relativity, quantum mechanics, nuclear physics, statistical mechanics and solid state physics. [3-0-1] Prerequisite: Either (a) a score more than 85% in all of PHYS 12, MATH 12 or (b) a score more than 85% in all of PHYS 12, PREC 12 or (c) a score more than 85% in all of PHYS 12, CALC 12 or (d) a score more than 85% in PHYS 100. PHYS 12 = Physics 12; MATH 12 = Principles of Mathematics 12; PREC 12 = Pre-Calculus 12; CALC 12 = Calculus 12. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
PHYS_V 106-T1B	PHYS_V	106	T1B	Enriched Physics 1 (lecture)	W1	Classical mechanics including conservation laws, angular momentum of rigid bodies and simple harmonic motion, wave phenomena, with an introduction to special relativity, quantum mechanics, nuclear physics, statistical mechanics and solid state physics. [3-0-1] Prerequisite: Either (a) a score more than 85% in all of PHYS 12, MATH 12 or (b) a score more than 85% in all of PHYS 12, PREC 12 or (c) a score more than 85% in all of PHYS 12, CALC 12 or (d) a score more than 85% in PHYS 100. PHYS 12 = Physics 12; MATH 12 = Principles of Mathematics 12; PREC 12 = Pre-Calculus 12; CALC 12 = Calculus 12. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180, MATH 184.	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
PHYS_V 106-T1C	PHYS_V	106	T1C	Enriched Physics 1 (lecture)	W1	Classical mechanics including conservation laws, angular momentum of rigid bodies and simple harmonic motion, wave phenomena, with an introduction to special relativity, quantum mechanics, nuclear physics, statistical mechanics and solid state physics. [3-0-1] Prerequisite: Either (a) a score more than 85% in all of PHYS 12, MATH 12 or (b) a score more than 85% in all of PHYS 12, PREC 12 or (c) a score more than 85% in all of PHYS 12, CALC 12 or (d) a score more than 85% in PHYS 100. PHYS 12 = Physics 12; MATH 12 = Principles of Mathematics 12; PREC 12 = Pre-Calculus 12; CALC 12 = Calculus 12. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180, MATH 184.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
PHYS_V 108-010	PHYS_V	108	010	Enriched Physics II	W2	Electricity and magnetism, electrical circuits, induction, electromagnetic waves, Maxwell's equations and applications. [3-0-1] Prerequisite: Either (a) one of PHYS 106, PHYS 107 or (b) a score of 85% or higher in one of PHYS 101, PHYS 117, PHYS 131. Corequisite: MATH101, MATH103, MATH105, MATH121	In Person Learning	Arranged	Arranged
PHYS_V 108-201	PHYS_V	108	201	Enriched Physics II	W2	Electricity and magnetism, electrical circuits, induction, electromagnetic waves, Maxwell's equations and applications. [3-0-1] Prerequisite: Either (a) one of PHYS 106, PHYS 107 or (b) a score of 85% or higher in one of PHYS 101, PHYS 117, PHYS 131. Corequisite: MATH101, MATH103, MATH105, MATH121	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHYS_V 108-T2A	PHYS_V	108	T2A	Enriched Physics II	W2	Electricity and magnetism, electrical circuits, induction, electromagnetic waves, Maxwell's equations and applications. [3-0-1] Prerequisite: Either (a) one of PHYS 106, PHYS 107 or (b) a score of 85% or higher in one of PHYS 101, PHYS 117, PHYS 131. Corequisite: MATH101, MATH103, MATH105, MATH121	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
PHYS_V 108-T2B	PHYS_V	108	T2B	Enriched Physics II	W2	Electricity and magnetism, electrical circuits, induction, electromagnetic waves, Maxwell's equations and applications. [3-0-1] Prerequisite: Either (a) one of PHYS 106, PHYS 107 or (b) a score of 85% or higher in one of PHYS 101, PHYS 117, PHYS 131. Corequisite: MATH101, MATH103, MATH105, MATH121	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
PHYS_V 108-T2C	PHYS_V	108	T2C	Enriched Physics II	W2	Electricity and magnetism, electrical circuits, induction, electromagnetic waves, Maxwell's equations and applications. [3-0-1] Prerequisite: Either (a) one of PHYS 106, PHYS 107 or (b) a score of 85% or higher in one of PHYS 101, PHYS 117, PHYS 131. Corequisite: MATH101, MATH103, MATH105, MATH121	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
PHYS_V 117-101	PHYS_V	117	101	Dynamics and Waves	W1	Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. [3-0-2] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHYS_V 117-102	PHYS_V	117	102	Dynamics and Waves	W1	Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. [3-0-2] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
PHYS_V 117-T1A	PHYS_V	117	T1A	Dynamics and Waves	W1	Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. [3-0-2] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
PHYS_V 117-T1B	PHYS_V	117	T1B	Dynamics and Waves	W1	Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. [3-0-2] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
PHYS_V 117-T1C	PHYS_V	117	T1C	Dynamics and Waves	W1	Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. [3-0-2] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
PHYS_V 117-T1D	PHYS_V	117	T1D	Dynamics and Waves	W1	Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. [3-0-2] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
PHYS_V 117-T1E	PHYS_V	117	T1E	Dynamics and Waves	W1	Kinematics including curvilinear motion. Forces and Newton's laws of motion. Work-energy theorem, conservation of energy. Conservation of momentum, collisions. Torque, rotational dynamics, angular momentum. Oscillations and waves. [3-0-2] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.	In Person Learning	Tue	3:30 p.m. - 4:30 p.m.

















PHYS_V 170-T2G	PHYS_V	170	T2G	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
PHYS_V 170-T2H	PHYS_V	170	T2H	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
PHYS_V 170-T2I	PHYS_V	170	T2I	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
PHYS_V 170-T2J	PHYS_V	170	T2J	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
PHYS_V 170-T2K	PHYS_V	170	T2K	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
PHYS_V 170-T2L	PHYS_V	170	T2L	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
PHYS_V 170-T2M	PHYS_V	170	T2M	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
PHYS_V 170-T2N	PHYS_V	170	T2N	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
PHYS_V 170-T2P	PHYS_V	170	T2P	Mechanics I	W2	Statics of particles, equilibrium or rigid bodies, rigid body statics and internal forces, trusses; kinematics: rectilinear motion; dynamics: Newton's second law, friction, impulse, momentum, work and energy. Recommended pre-requisites: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Recommended co-requisite: one of MATH 101, MATH 103, MATH 105, MATH 121. [3-0-1]	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
PHYS_V 200-101	PHYS_V	200	101	Relativity and Quanta	W1	Special relativity: Lorentz transformation, dynamics and conservation laws. Quantum physics: the experimental evidence for quantization; a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of atoms and nuclei. [4-0-0] Prerequisite: Either (a) one of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153 and one of MATH 101, MATH 103, MATH 105, MATH 121; or (b) SCIE 001.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
PHYS_V 200-102	PHYS_V	200	102	Relativity and Quanta	W1	Special relativity: Lorentz transformation, dynamics and conservation laws. Quantum physics: the experimental evidence for quantization; a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of atoms and nuclei. [4-0-0] Prerequisite: Either (a) one of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153 and one of MATH 101, MATH 103, MATH 105, MATH 121; or (b) SCIE 001.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHYS_V 200-T1A	PHYS_V	200	T1A	Relativity and Quanta	W1	Special relativity: Lorentz transformation, dynamics and conservation laws. Quantum physics: the experimental evidence for quantization; a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of atoms and nuclei. [4-0-0] Prerequisite: Either (a) one of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153 and one of MATH 101, MATH 103, MATH 105, MATH 121; or (b) SCIE 001.	In Person Learning	Wed	8:30 a.m. - 10:00 a.m.
PHYS_V 200-T1B	PHYS_V	200	T1B	Relativity and Quanta	W1	Special relativity: Lorentz transformation, dynamics and conservation laws. Quantum physics: the experimental evidence for quantization; a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of atoms and nuclei. [4-0-0] Prerequisite: Either (a) one of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153 and one of MATH 101, MATH 103, MATH 105, MATH 121; or (b) SCIE 001.	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.
PHYS_V 203-201	PHYS_V	203	201	Thermal Physics I	W2	Fundamentals of thermodynamics and statistical physics; entropy, laws of thermodynamics, heat engines, free energy, phase transitions, Boltzmann statistics, quantum statistics. [4-0-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153, SCIE 001. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
PHYS_V 210-101	PHYS_V	210	101	Introduction to Computational Physics	W1	Introduction to UNIX/Linux; software tools for processing, fitting and displaying data; numerical methods and application in the physical sciences. [2-3-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153, SCIE 001. Corequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed	12:30 p.m. - 1:00 p.m.
PHYS_V 210-102	PHYS_V	210	102	Introduction to Computational Physics	W1	Introduction to UNIX/Linux; software tools for processing, fitting and displaying data; numerical methods and application in the physical sciences. [2-3-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153, SCIE 001. Corequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed	3:30 p.m. - 4:00 p.m.
PHYS_V 210-L1A	PHYS_V	210	L1A	Introduction to Computational Physics	W1	Introduction to UNIX/Linux; software tools for processing, fitting and displaying data; numerical methods and application in the physical sciences. [2-3-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153, SCIE 001. Corequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed	1:00 p.m. - 3:00 p.m.

PHYS_V 210-L1B	PHYS_V	210	L1B	Introduction to Computational Physics	W1	Introduction to UNIX/Linux; software tools for processing, fitting and displaying data; numerical methods and application in the physical sciences. [2-3-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 158, PHYS 153, SCIE 001. Corequisite: One of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
PHYS_V 216-201	PHYS_V	216	201	Intermediate Mechanics	W2	Review of kinematics, Newton's laws, angular momentum and fixed axis rotation. Rigid body motion, central forces, non-inertial frames of reference. Introduction to Lagrangian and Hamiltonian mechanics. [3-0-1] Prerequisite: One of PHYS 106, PHYS 107, PHYS 117, PHYS 170, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHYS_V 216-T2A	PHYS_V	216	T2A	Intermediate Mechanics	W2	Review of kinematics, Newton's laws, angular momentum and fixed axis rotation. Rigid body motion, central forces, non-inertial frames of reference. Introduction to Lagrangian and Hamiltonian mechanics. [3-0-1] Prerequisite: One of PHYS 106, PHYS 107, PHYS 117, PHYS 170, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
PHYS_V 216-T2B	PHYS_V	216	T2B	Intermediate Mechanics	W2	Review of kinematics, Newton's laws, angular momentum and fixed axis rotation. Rigid body motion, central forces, non-inertial frames of reference. Introduction to Lagrangian and Hamiltonian mechanics. [3-0-1] Prerequisite: One of PHYS 106, PHYS 107, PHYS 117, PHYS 170, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
PHYS_V 216-T2C	PHYS_V	216	T2C	Intermediate Mechanics	W2	Review of kinematics, Newton's laws, angular momentum and fixed axis rotation. Rigid body motion, central forces, non-inertial frames of reference. Introduction to Lagrangian and Hamiltonian mechanics. [3-0-1] Prerequisite: One of PHYS 106, PHYS 107, PHYS 117, PHYS 170, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
PHYS_V 219-L1A	PHYS_V	219	L1A	Intermediate Experimental Physics I	W1	Analog electronics and amplifiers, digital electronics, analog-to-digital converters and an introduction to use of computers in data analysis and simulations. [1-3-0] Prerequisite: Either (a) one of PHYS 108, PHYS 118 and one of PHYS 109, PHYS 119; or (b) PHYS 102 or (c) all of PHYS 158, PHYS 159 or (d) SCIE 001. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PHYS_V 219-L1B	PHYS_V	219	L1B	Intermediate Experimental Physics I	W1	Analog electronics and amplifiers, digital electronics, analog-to-digital converters and an introduction to use of computers in data analysis and simulations. [1-3-0] Prerequisite: Either (a) one of PHYS 108, PHYS 118 and one of PHYS 109, PHYS 119; or (b) PHYS 102 or (c) all of PHYS 158, PHYS 159 or (d) SCIE 001. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
PHYS_V 219-L1C	PHYS_V	219	L1C	Intermediate Experimental Physics I	W1	Analog electronics and amplifiers, digital electronics, analog-to-digital converters and an introduction to use of computers in data analysis and simulations. [1-3-0] Prerequisite: Either (a) one of PHYS 108, PHYS 118 and one of PHYS 109, PHYS 119; or (b) PHYS 102 or (c) all of PHYS 158, PHYS 159 or (d) SCIE 001. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
PHYS_V 219-L1D	PHYS_V	219	L1D	Intermediate Experimental Physics I	W1	Analog electronics and amplifiers, digital electronics, analog-to-digital converters and an introduction to use of computers in data analysis and simulations. [1-3-0] Prerequisite: Either (a) one of PHYS 108, PHYS 118 and one of PHYS 109, PHYS 119; or (b) PHYS 102 or (c) all of PHYS 158, PHYS 159 or (d) SCIE 001. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
PHYS_V 219-T1A	PHYS_V	219	T1A	Intermediate Experimental Physics I	W1	Analog electronics and amplifiers, digital electronics, analog-to-digital converters and an introduction to use of computers in data analysis and simulations. [1-3-0] Prerequisite: Either (a) one of PHYS 108, PHYS 118 and one of PHYS 109, PHYS 119; or (b) PHYS 102 or (c) all of PHYS 158, PHYS 159 or (d) SCIE 001. Corequisite: One of MATH 200, MATH 217, MATH 226, MATH 253.	In Person Learning	Tue	11:00 a.m. - 12:30 p.m.
PHYS_V 229-L2A	PHYS_V	229	L2A	Intermediate Experimental Physics II	W2	Thermodynamics experiments, modern physics experiments and use of computers in data analysis. [0-3-1*] Prerequisite: PHYS 219. Corequisite: MATH 215.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PHYS_V 229-L2B	PHYS_V	229	L2B	Intermediate Experimental Physics II	W2	Thermodynamics experiments, modern physics experiments and use of computers in data analysis. [0-3-1*] Prerequisite: PHYS 219. Corequisite: MATH 215.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PHYS_V 229-L2C	PHYS_V	229	L2C	Intermediate Experimental Physics II	W2	Thermodynamics experiments, modern physics experiments and use of computers in data analysis. [0-3-1*] Prerequisite: PHYS 219. Corequisite: MATH 215.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
PHYS_V 229-L2D	PHYS_V	229	L2D	Intermediate Experimental Physics II	W2	Thermodynamics experiments, modern physics experiments and use of computers in data analysis. [0-3-1*] Prerequisite: PHYS 219. Corequisite: MATH 215.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
PHYS_V 229-T2A	PHYS_V	229	T2A	Intermediate Experimental Physics II	W2	Thermodynamics experiments, modern physics experiments and use of computers in data analysis. [0-3-1*] Prerequisite: PHYS 219. Corequisite: MATH 215.	In Person Learning	Arranged	Arranged
PHYS_V 298-611	PHYS_V	298	611	Co-operative Work Placement I	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the winter term of the second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS 200.	In Person Learning	Arranged	Arranged
PHYS_V 298-613	PHYS_V	298	613	Co-operative Work Placement I	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the winter term of the second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS 200.	In Person Learning	Arranged	Arranged
PHYS_V 299-611	PHYS_V	299	611	Co-operative Work Placement II	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS298]	In Person Learning	Arranged	Arranged
PHYS_V 299-612	PHYS_V	299	612	Co-operative Work Placement II	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS298]	In Person Learning	Arranged	Arranged

PHYS_V 301-101	PHYS_V	301	101	Electricity and Magnetism	W1	Maxwell's equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and one of MATH 217, MATH 227, MATH 317 and one of MATH 215, MATH 255.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHYS_V 301-201	PHYS_V	301	201	Electricity and Magnetism	W2	Maxwell's equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and one of MATH 217, MATH 227, MATH 317 and one of MATH 215, MATH 255.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
PHYS_V 301-T1A	PHYS_V	301	T1A	Electricity and Magnetism	W1	Maxwell's equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and one of MATH 217, MATH 227, MATH 317 and one of MATH 215, MATH 255.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
PHYS_V 301-T1B	PHYS_V	301	T1B	Electricity and Magnetism	W1	Maxwell's equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and one of MATH 217, MATH 227, MATH 317 and one of MATH 215, MATH 255.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
PHYS_V 301-T2A	PHYS_V	301	T2A	Electricity and Magnetism	W2	Maxwell's equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and one of MATH 217, MATH 227, MATH 317 and one of MATH 215, MATH 255.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
PHYS_V 301-T2B	PHYS_V	301	T2B	Electricity and Magnetism	W2	Maxwell's equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and one of MATH 217, MATH 227, MATH 317 and one of MATH 215, MATH 255.	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
PHYS_V 304-101	PHYS_V	304	101	Introduction to Quantum Mechanics	W1	Principles and applications of quantum mechanics, wave mechanics, the Schrodinger equation, expectation values, Hermitian operators, commuting observables, one-dimensional systems, harmonic oscillators, angular momentum, three-dimensional systems. [3-0-0] Prerequisite: One of PHYS 200, PHYS 250. Corequisite: One of MATH 257, MATH 316, PHYS 312.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHYS_V 304-201	PHYS_V	304	201	Introduction to Quantum Mechanics	W2	Principles and applications of quantum mechanics, wave mechanics, the Schrodinger equation, expectation values, Hermitian operators, commuting observables, one-dimensional systems, harmonic oscillators, angular momentum, three-dimensional systems. [3-0-0] Prerequisite: One of PHYS 200, PHYS 250. Corequisite: One of MATH 257, MATH 316, PHYS 312.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHYS_V 304-T1A	PHYS_V	304	T1A	Introduction to Quantum Mechanics	W1	Principles and applications of quantum mechanics, wave mechanics, the Schrodinger equation, expectation values, Hermitian operators, commuting observables, one-dimensional systems, harmonic oscillators, angular momentum, three-dimensional systems. [3-0-0] Prerequisite: One of PHYS 200, PHYS 250. Corequisite: One of MATH 257, MATH 316, PHYS 312.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
PHYS_V 304-T2A	PHYS_V	304	T2A	Introduction to Quantum Mechanics	W2	Principles and applications of quantum mechanics, wave mechanics, the Schrodinger equation, expectation values, Hermitian operators, commuting observables, one-dimensional systems, harmonic oscillators, angular momentum, three-dimensional systems. [3-0-0] Prerequisite: One of PHYS 200, PHYS 250. Corequisite: One of MATH 257, MATH 316, PHYS 312.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
PHYS_V 305-201	PHYS_V	305	201	Introduction to Biophysics	W2	Physical principles involved in biological systems at the microscopic and molecular scales. Diffusion, low Reynolds number dynamics, the physicist's view of biomolecular structure, models of molecular motors and membranes. [3-0-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001 and either (a) PHYS 203 or (b) one of ENPH 257, CHEM 201, CHEM 205 and one of MATH 302, MATH 318, STAT 241, STAT 251, STAT 302.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
PHYS_V 306-201	PHYS_V	306	201	Advanced Mechanics	W2	Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PHYS_V 306-T2A	PHYS_V	306	T2A	Advanced Mechanics	W2	Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Tue	8:30 a.m. - 9:30 a.m.
PHYS_V 306-T2B	PHYS_V	306	T2B	Advanced Mechanics	W2	Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 255, MATH 256, MATH 258.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
PHYS_V 309-101	PHYS_V	309	101	Electrical Laboratory	W1	Selected experiments in electromagnetism and electronics; computer data acquisition; advanced data analysis and simulation. [1-4-0] Prerequisite: One of PHYS 209, PHYS 229, ENPH 259.	In Person Learning	Thu	11:30 a.m. - 12:30 p.m.
PHYS_V 309-L1A	PHYS_V	309	L1A	Electrical Laboratory	W1	Selected experiments in electromagnetism and electronics; computer data acquisition; advanced data analysis and simulation. [1-4-0] Prerequisite: One of PHYS 209, PHYS 229, ENPH 259.	In Person Learning	Mon	2:00 p.m. - 6:00 p.m.
PHYS_V 309-L1B	PHYS_V	309	L1B	Electrical Laboratory	W1	Selected experiments in electromagnetism and electronics; computer data acquisition; advanced data analysis and simulation. [1-4-0] Prerequisite: One of PHYS 209, PHYS 229, ENPH 259.	In Person Learning	Tue	2:00 p.m. - 6:00 p.m.
PHYS_V 309-L1C	PHYS_V	309	L1C	Electrical Laboratory	W1	Selected experiments in electromagnetism and electronics; computer data acquisition; advanced data analysis and simulation. [1-4-0] Prerequisite: One of PHYS 209, PHYS 229, ENPH 259.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.

PHYS_V 310-201	PHYS_V	310	201	Machine Learning for Physics and Astronomy Data Analysis	W2	Fundamental principles and applications of data-centric research techniques in Physics and Astronomy. Topics include algorithms for data structuring, dimensionality reduction, linear regression and classification, artificial neural nets, convolutional neural nets, unsupervised learning. [1-4-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 and one of BIOL 300, STAT 200, STAT 203, STAT 241, STAT 251, MATH 318 and one of PHYS 210, CPSC 103, CPSC 110, APSC 160, EOCS 211 and one of PHYS 108, PHYS 118, PHYS 158, SCIE 001.	In Person Learning	Mon Wed	3:00 p.m. - 3:30 p.m.
PHYS_V 310-L1A	PHYS_V	310	L1A	Machine Learning for Physics and Astronomy Data Analysis	W2	Fundamental principles and applications of data-centric research techniques in Physics and Astronomy. Topics include algorithms for data structuring, dimensionality reduction, linear regression and classification, artificial neural nets, convolutional neural nets, unsupervised learning. [1-4-0] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 and one of BIOL 300, STAT 200, STAT 203, STAT 241, STAT 251, MATH 318 and one of PHYS 210, CPSC 103, CPSC 110, APSC 160, EOCS 211 and one of PHYS 108, PHYS 118, PHYS 158, SCIE 001.	In Person Learning	Mon Wed	3:30 p.m. - 5:30 p.m.
PHYS_V 312-101	PHYS_V	312	101	Introduction to Mathematical Physics	W1	The application of ordinary and partial differential equations to physical problems; boundary and initial value problems associated with heat, wave and Laplace equations. Fourier analysis; expansions in Bessel and Legendre functions. Credit will be granted for only one of PHYS 312 and MATH 316. [3-0-0] Prerequisite: [MATH215]	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHYS_V 315-101	PHYS_V	315	101	Quantum Physics of Materials	W1	Crystal structure, elasticity and phonons, elementary electronic transport, defects, alloys, liquid crystals and polymers. [3-0-0] Prerequisite: One of PHYS 203, ENPH 257, CHEM 201, CHEM 205, CHEM 304 and one of PHYS 200, PHYS 250, CHEM 312. Corequisite: [MATH215]	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PHYS_V 315-DNU_101	PHYS_V	315	DNU_101	Quantum Physics of Materials	W1	Crystal structure, elasticity and phonons, elementary electronic transport, defects, alloys, liquid crystals and polymers. [3-0-0] Prerequisite: One of PHYS 203, ENPH 257, CHEM 201, CHEM 205, CHEM 304 and one of PHYS 200, PHYS 250, CHEM 312. Corequisite: [MATH215]	In Person Learning	Arranged	Arranged
PHYS_V 319-201	PHYS_V	319	201	Electronics Laboratory	W2	A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.	In Person Learning	Tue	11:30 a.m. - 12:30 p.m.
PHYS_V 319-L2A	PHYS_V	319	L2A	Electronics Laboratory	W2	A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.	In Person Learning	Tue	2:00 p.m. - 6:00 p.m.
PHYS_V 319-L2B	PHYS_V	319	L2B	Electronics Laboratory	W2	A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
PHYS_V 319-L2C	PHYS_V	319	L2C	Electronics Laboratory	W2	A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.	In Person Learning	Thu	2:00 p.m. - 6:00 p.m.
PHYS_V 333-100	PHYS_V	333	100	Energy and Climate	W1	The fundamental physics behind global issues of energy use and climate change. [3-0-0] Prerequisite: Either (a) one of MATH 101, MATH 103, MATH 105, MATH 121 and one of PHYS 101, PHYS 102, PHYS 106, PHYS 107, PHYS 108, PHYS 117, PHYS 118, PHYS 131, PHYS 153, PHYS 157, PHYS 158; or (b) SCIE 001.	Hybrid Learning	Arranged	Arranged
PHYS_V 341-201	PHYS_V	341	201	Physics of Music	W2	An introduction to the physical principles important to the production, transmission and perception of musical sounds. The treatment will be non-mathematical; with emphasis on demonstrations. Topics may include the description of sound waves, resonances, scales, physics of hearing, examination of specific musical instruments, etc. Not for credit in the Faculties of Science and Applied Science. [3-0-0]	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHYS_V 348-101	PHYS_V	348	101	Frontiers in Physics and Astronomy	W1	Current research topics in physics and astronomy are investigated and explored. Technical communication and research skills are studied and developed via oral presentations and written scientific reports on these current research topics. [3-0-0] Prerequisite: Third-year standing in a physics honours program or fourth-year standing in a physics or astronomy major program.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHYS_V 349-001	PHYS_V	349	001	Directed Research Project in Physics	W1-2	A research project, undertaken under the direction of a faculty member, culminating in a written report. This course requires approval of the course instructor and program advisor in the Department of Physics and Astronomy. [1*-6-0]	In Person Learning	Arranged	Arranged
PHYS_V 350-201	PHYS_V	350	201	Applications of Classical Mechanics	W2	Review of principles. Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, Lagrangian and Hamiltonian methods. Variational principles in optics and mechanics, Liouville's theorem and statistical mechanics. The relationship between classical and quantum mechanics. [3-0-0]	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
PHYS_V 350-T2A	PHYS_V	350	T2A	Applications of Classical Mechanics	W2	Review of principles. Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, Lagrangian and Hamiltonian methods. Variational principles in optics and mechanics, Liouville's theorem and statistical mechanics. The relationship between classical and quantum mechanics. [3-0-0]	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
PHYS_V 399-610	PHYS_V	399	610	Co-operative Work Placement III	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS299]	In Person Learning	Arranged	Arranged
PHYS_V 399-612	PHYS_V	399	612	Co-operative Work Placement III	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS299]	In Person Learning	Arranged	Arranged
PHYS_V 400-101	PHYS_V	400	101	Introduction to Elementary Particles	W1	Standard model, classification of elementary particles and forces of nature, symmetries, conservation laws, quark model, quantum electrodynamics, quantum chromodynamics, and the theory of weak interactions. [3-0-0] Prerequisite: One of PHYS 304, PHYS 450.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHYS_V 401-201	PHYS_V	401	201	Electromagnetic Theory	W2	Applications of Maxwell's theory. Wave propagation in dielectrics, conductors and plasmas, wave guides, radiation, antennae, and special relativity. [3-0-0] Prerequisite: One of PHYS 301, PHYS 354.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PHYS_V 402-201	PHYS_V	402	201	Applications of Quantum Mechanics	W2	Spin and angular momentum addition, perturbation methods, and applications in the fields of Atomic, Molecular, Nuclear, and Solid State Physics. [3-0-0] Prerequisite: One of PHYS 304, PHYS 450.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.

PHYS_V 403-201	PHYS_V	403	201	Statistical Mechanics	W2	Principles and applications of statistical mechanics. Ideal gases, degenerate Fermi gases, Bose-Einstein condensation, black body radiation, fluctuations and phase transitions. [3-0-0] Prerequisite: One of PHYS 203, ENPH 257, PHYS 257, CHEM 201, CHEM 304 and one of PHYS 304, PHYS 450, CHEM 312. One of MATH 302, MATH 318, STAT 241, STAT 251, STAT 302 is recommended.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	
PHYS_V 404-101	PHYS_V	404	101	Introduction to Medical Physics	W1	Radiotherapy, X-ray imaging, nuclear medicine, magnetic resonance imaging and biomedical optics. [3-0-0] Prerequisite: Third year standing in Science or Applied Science is required. MATH 200 (or MATH 217 or MATH 226) is recommended.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.	
PHYS_V 405-101	PHYS_V	405	101	Radiation Biophysics	W1	Physical and chemical interactions of ionizing radiations and their biological effects at the cellular, tissue and whole-animal levels. [3-0-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, PHYS 153, PHYS 158, SCIE 001. and third year standing in Science or Applied Science.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
PHYS_V 407-101	PHYS_V	407	101	Introduction to General Relativity	W1	Physical consequences of Einstein's equations, including the principle of equivalence, curved space-time, geodesics, the Schwarzschild solution, deflection of light, black holes, and gravitational radiation. [3-0-0] Prerequisite: One of MATH 217, MATH 227, MATH 317 and one of MATH 215, MATH 255. PHYS 301 and one of PHYS 206, PHYS 306 are recommended.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.	
PHYS_V 408-201	PHYS_V	408	201	Optics	W2	Principles and applications of optical physics. Interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussian beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-3-0] Prerequisite: One of PHYS 301, PHYS 354 and one of MATH 215, MATH 255.	In Person Learning	Wed Fri	8:30 a.m. - 10:00 a.m.	
PHYS_V 408-L2A	PHYS_V	408	L2A	Optics	W2	Principles and applications of optical physics. Interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussian beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-3-0] Prerequisite: One of PHYS 301, PHYS 354 and one of MATH 215, MATH 255.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.	
PHYS_V 408-L2B	PHYS_V	408	L2B	Optics	W2	Principles and applications of optical physics. Interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussian beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-3-0] Prerequisite: One of PHYS 301, PHYS 354 and one of MATH 215, MATH 255.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.	
PHYS_V 408-L2C	PHYS_V	408	L2C	Optics	W2	Principles and applications of optical physics. Interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussian beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-3-0] Prerequisite: One of PHYS 301, PHYS 354 and one of MATH 215, MATH 255.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
PHYS_V 408-L2D	PHYS_V	408	L2D	Optics	W2	Principles and applications of optical physics. Interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussian beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-3-0] Prerequisite: One of PHYS 301, PHYS 354 and one of MATH 215, MATH 255.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
PHYS_V 409-A_101	PHYS_V	409	A	A_101	Experimental Physics	W1	A laboratory course with a wide choice of experiments for fourth year Honours and Major students. Topics include solid state, nuclear, classical, quantum, electromagnetic and low temperature physics. For six credits, two weekly laboratory periods and completion of a project in second term are required. [0-3-0] Prerequisite: One of PHYS 309, PHYS 319. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed Fri	2:00 p.m. - 5:00 p.m.
PHYS_V 409-B_201	PHYS_V	409	B	B_201	Experimental Physics	W2	A laboratory course with a wide choice of experiments for fourth year Honours and Major students. Topics include solid state, nuclear, classical, quantum, electromagnetic and low temperature physics. For six credits, two weekly laboratory periods and completion of a project in second term are required. [0-3-0] Prerequisite: One of PHYS 309, PHYS 319. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed Fri	2:00 p.m. - 5:00 p.m.
PHYS_V 410-101	PHYS_V	410	101	Computational Physics	W1	Scientific programming applied to problems in physics. Fundamentals of numerical analysis for continuum problems. Solution of linear and non-linear algebraic systems, ordinary differential equations and stochastic problems. [3-0-1] Prerequisite: One of PHYS 312, MATH 257, MATH 316 and one of PHYS 210, EOSC 211, CPSC 110, CPSC 103, APSC 160.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
PHYS_V 410-T1A	PHYS_V	410	T1A	Computational Physics	W1	Scientific programming applied to problems in physics. Fundamentals of numerical analysis for continuum problems. Solution of linear and non-linear algebraic systems, ordinary differential equations and stochastic problems. [3-0-1] Prerequisite: One of PHYS 312, MATH 257, MATH 316 and one of PHYS 210, EOSC 211, CPSC 110, CPSC 103, APSC 160.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.	
PHYS_V 410-T1B	PHYS_V	410	T1B	Computational Physics	W1	Scientific programming applied to problems in physics. Fundamentals of numerical analysis for continuum problems. Solution of linear and non-linear algebraic systems, ordinary differential equations and stochastic problems. [3-0-1] Prerequisite: One of PHYS 312, MATH 257, MATH 316 and one of PHYS 210, EOSC 211, CPSC 110, CPSC 103, APSC 160.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.	
PHYS_V 420-C_001	PHYS_V	420	C	C_001	Physics Demonstrations	W1-2	The students will prepare, under the supervision of a faculty member, a demonstration or series of demonstrations intended to illustrate physical principles to diverse audiences. Intended for third- or fourth-year Physics Majors and Math/Science Education students. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 420-DNU_C_001	PHYS_V	420	C	DNU_C_001	Physics Demonstrations	W2	The students will prepare, under the supervision of a faculty member, a demonstration or series of demonstrations intended to illustrate physical principles to diverse audiences. Intended for third- or fourth-year Physics Majors and Math/Science Education students. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 438-202	PHYS_V	438	202	Zoological Physics	W2	Animal systems viewed from a physicist's perspective. Topics include sensory systems, energy budgets, locomotion, internal flows, physical advantages of grouping. [3-0-0] Prerequisite: One of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 131, PHYS 157, SCIE 001. BIOL 325 is recommended. Equivalency: BIOL438	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.	
PHYS_V 447-A_101	PHYS_V	447	A	A_101	Advanced Topics in Physics	W1	Directed studies available to students in Honours Physics with approval from the Head of the Department. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 447-B_201	PHYS_V	447	B	B_201	Advanced Topics in Physics	W2	Directed studies available to students in Honours Physics with approval from the Head of the Department. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

PHYS_V 447-C_001	PHYS_V	447	C	C_001	Advanced Topics in Physics	W1-2	Directed studies available to students in Honours Physics with approval from the Head of the Department. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 449-001	PHYS_V	449		001	Honours Thesis	W1-2	A research project, undertaken under the direction of a faculty member, culminating in a thesis. [1*-6-0]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHYS_V 473-201	PHYS_V	473		201	Applied Nuclear Physics	W2	Radioactive decay and radiations, nuclear properties, interactions of neutrons, physical principles of power reactors, nuclear fusion, radiation monitoring, and safety. [3-0-1*] Prerequisite: One of PHYS 304, PHYS 450.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHYS_V 474-201	PHYS_V	474		201	Applied Solid State Physics	W2	Symmetry of crystal structures, reciprocal lattice, band theory, conduction in metals and semiconductors, phonons and superconductivity. [3-0-0] Prerequisite: PHYS450,PHYS304	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PHYS_V 490-001	PHYS_V	490		001	Student Directed Seminar	W2	Self-directed, collaborative studies, in a group-learning environment, initiated and coordinated by senior undergraduate students with the supervision of a faculty advisor. Course structure, enrolment, and delivery methods will comply with the Handbook for Student Directed Seminars. Cannot be used as a specialization requirement in any PHYS and/or ASTR specialization. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Arranged	Arranged
PHYS_V 498-610	PHYS_V	498		610	Co-operative Work Placement IV	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS399]	In Person Learning	Arranged	Arranged
PHYS_V 498-612	PHYS_V	498		612	Co-operative Work Placement IV	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS399]	In Person Learning	Arranged	Arranged
PHYS_V 499-611	PHYS_V	499		611	Co-operative Work Placement V	W1	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS498]	In Person Learning	Arranged	Arranged
PHYS_V 499-612	PHYS_V	499		612	Co-operative Work Placement V	W2	Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS498]	In Person Learning	Arranged	Arranged
PHYS_V 500-101	PHYS_V	500		101	Quantum Mechanics I	W1	Non-relativistic quantum mechanics with applications to atomic, nuclear and particle physics. Perturbation theory, multi-electron atoms, molecular structure, WKB, scattering theory. Recommended pre-requisite: PHYS 402. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
PHYS_V 502-101	PHYS_V	502		101	Condensed Matter Physics I	W1	One-electron theory of solids, energy bands, lattice vibration, transport theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: A background in undergraduate solid state physics such as covered in PHYS 474 is highly recommended.	In Person Learning	Mon Wed	2:30 p.m. - 4:00 p.m.
PHYS_V 502-201	PHYS_V	502		201	Condensed Matter Physics I	W1-2	One-electron theory of solids, energy bands, lattice vibration, transport theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: A background in undergraduate solid state physics such as covered in PHYS 474 is highly recommended.	In Person Learning	Arranged	Arranged
PHYS_V 503-101	PHYS_V	503		101	Condensed Matter Physics II	W1	Interacting electrons, electron-phonon interaction, Hubbard model, magnetism, superconductivity, use of Green functions. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS502] Corequisite: [PHYS500]	In Person Learning	Arranged	Arranged
PHYS_V 503-201	PHYS_V	503		201	Condensed Matter Physics II	W2	Interacting electrons, electron-phonon interaction, Hubbard model, magnetism, superconductivity, use of Green functions. This course is not eligible for Credit/D/Fail grading. Prerequisite: [PHYS502] Corequisite: [PHYS500]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHYS_V 504-101	PHYS_V	504		101	Special Relativity and Classical Electromagnetism	W1	Boundary-value problems, Green's functions and multipole expansions, magnetostatics, Faraday's law of induction, retarded potentials, Poynting's theorem and conservation laws, gauge invariance. Propagation of electromagnetic waves. Presentation of radiation from moving charges, classical electron theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: A background in electricity and magnetism such as covered PHYS 401 is highly recommended.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PHYS_V 506-101	PHYS_V	506		101	Elementary Particle Physics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHYS_V 506-201	PHYS_V	506		201	Elementary Particle Physics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHYS_V 508-201	PHYS_V	508		201	Quantum Field Theory II	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS 526.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PHYS_V 509-C_101	PHYS_V	509	C	C_101	Theory of Measurements	W1	Estimation of parameters from experimental measurements; maximum likelihood; least squares; tests of significance (chi square, etc). Noise properties of common devices. Extracting signals from noise; signal averaging; auto and cross-correlation, etc. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHYS_V 516-201	PHYS_V	516		201	Statistical Mechanics	W2	Mean field theory, Landau theory of phase transitions, critical phenomena, renormalization theory. Monte Carlo method, linear response theory, fluctuations. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PHYS_V 526-101	PHYS_V	526		101	Quantum Field Theory I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:30 p.m.

PHYS_V 530-B_201	PHYS_V	530	B	B_201	Topics in General Relativity Theory	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS 504.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHYS_V 534-101	PHYS_V	534		101	Radiotherapy Physics I	W1	Principles of dosimetry of ionizing radiation with emphasis on applications to radiotherapy and radiobiology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Fri	9:00 a.m. - 10:30 a.m.
PHYS_V 535-201	PHYS_V	535		201	Radiotherapy Physics II	W2	A continuation of PHYS 534, including an extension of the topics discussed in that course. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:30 a.m. - 12:00 p.m.
PHYS_V 536-101	PHYS_V	536		101	Advanced Radiation Biophysics	W1	Credit will be granted for only one of PHYS 536 or PHYS 405. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PHYS_V 539-201	PHYS_V	539		201	Radiation Dosimetry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:30 a.m.
PHYS_V 540-201	PHYS_V	540		201	Radiological Imaging	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	10:00 a.m. - 11:30 a.m.
PHYS_V 541-101	PHYS_V	541		101	Nuclear Medicine	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHYS_V 541-201	PHYS_V	541		201	Nuclear Medicine	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHYS_V 543-101	PHYS_V	543		101	Biomedical Optics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
PHYS_V 545-201	PHYS_V	545		201	Anatomy, Physiology and Statistics for Medical Physicists	W2	Restricted to graduate students in the M.Sc. (Medical Physics) Specialization. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:30 p.m.
PHYS_V 546-001	PHYS_V	546		001	Clinical Experience in Medical Physics	W1-2	Clinical treatment planning techniques, quality assurance of treatment equipment and clinical decision making for radiation therapy. Quality assurance and decision making for medical imaging. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHYS_V 546-101	PHYS_V	546		101	Clinical Experience in Medical Physics	W1	Clinical treatment planning techniques, quality assurance of treatment equipment and clinical decision making for radiation therapy. Quality assurance and decision making for medical imaging. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHYS_V 546-201	PHYS_V	546		201	Clinical Experience in Medical Physics	W2	Clinical treatment planning techniques, quality assurance of treatment equipment and clinical decision making for radiation therapy. Quality assurance and decision making for medical imaging. Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHYS_V 549-T_001	PHYS_V	549	T	T_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 549-T_101	PHYS_V	549	T	T_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 549-T_201	PHYS_V	549	T	T_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-A_001	PHYS_V	555	A	A_001	Directed Studies in Physics	W1-2	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-A_002	PHYS_V	555	A	A_002	Directed Studies in Physics	W1-2	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-A_101	PHYS_V	555	A	A_101	Directed Studies in Physics	W1	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-A_102	PHYS_V	555	A	A_102	Directed Studies in Physics	W1	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-A_103	PHYS_V	555	A	A_103	Directed Studies in Physics	W1	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

PHYS_V 555-A_201	PHYS_V	555	A	A_201	Directed Studies in Physics	W2	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-A_202	PHYS_V	555	A	A_202	Directed Studies in Physics	W2	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-A_203	PHYS_V	555	A	A_203	Directed Studies in Physics	W2	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-B_003	PHYS_V	555	B	B_003	Directed Studies in Physics	W1-2	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-B_104	PHYS_V	555	B	B_104	Directed Studies in Physics	W1	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 555-C_004	PHYS_V	555	C	C_004	Directed Studies in Physics	W1-2	With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 560-201	PHYS_V	560		201	Physics and Engineering of Particle Accelerators	W2	Injectors, radio frequency acceleration, superconducting acceleration elements, beam dynamics, and applications of electron accelerators. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PHYS_V 599-A_001	PHYS_V	599	A	A_001	M.A.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 599-A_101	PHYS_V	599	A	A_101	M.A.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 599-A_201	PHYS_V	599	A	A_201	M.A.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PHYS_V 649-001	PHYS_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
PHYS_V 649-101	PHYS_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
PHYS_V 649-201	PHYS_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
PLAN_V 211-001	PLAN_V	211		001	City-Making: A Global Perspective	W2	Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
PLAN_V 211-D01	PLAN_V	211		D01	City-Making: A Global Perspective	W2	Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
PLAN_V 211-D02	PLAN_V	211		D02	City-Making: A Global Perspective	W2	Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning.	In Person Learning	Thu	12:00 p.m. - 1:00 p.m.
PLAN_V 211-D03	PLAN_V	211		D03	City-Making: A Global Perspective	W2	Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
PLAN_V 211-D04	PLAN_V	211		D04	City-Making: A Global Perspective	W2	Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
PLAN_V 221-001	PLAN_V	221		001	City Visuals	W2	An exploratory journey through the vast world of visualizing the city and ways of representing the built environment, including how to both interpret and use visualizations to read the city. Prerequisite: Second-year standing or above in any program.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PLAN_V 231-001	PLAN_V	231		001	Methods of Community Engagement	W1	Examination of various approaches to hands-on engagement with urban communities while examining the meaning of public, community, and participation. Prerequisite: Second-year standing.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PLAN_V 321-001	PLAN_V	321		001	Indigeneity and the City	W2	Place-based exploration of the multiple, complex and contested ways urban Indigeneity is constituted in Canada today, with opportunities for field trips and hands-on learning. Prerequisite: Third-year standing or above in any program. Second year students may be admitted with permission of instructor.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

PLAN_V 331-002	PLAN_V	331	002	The Just City in a Divided World	W1	Considers the city as a terrain for the manifestation and mediation of social justice. Explores how the allocation of land, goods, and services in cities (re)produces social stratification, and how institutions and civil society negotiate just and unjust outcomes. Prerequisite: Third-year standing or above in any program. Second year students may be admitted with permission of instructor.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PLAN_V 341-001	PLAN_V	341	001	Smart Cities: Concepts, Methods and Design	W2	Rapid transformation of cities by information technology and socio-economic innovation; growth in citizen-generated data and the internet of things; emerging theory, methods, and frameworks for understanding Smart Cities. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing or above in any program. Second year students may be admitted with permission of instructor.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
PLAN_V 341-0T1	PLAN_V	341	0T1	Smart Cities: Concepts, Methods and Design	W2	Rapid transformation of cities by information technology and socio-economic innovation; growth in citizen-generated data and the internet of things; emerging theory, methods, and frameworks for understanding Smart Cities. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing or above in any program. Second year students may be admitted with permission of instructor.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
PLAN_V 341-0T2	PLAN_V	341	0T2	Smart Cities: Concepts, Methods and Design	W2	Rapid transformation of cities by information technology and socio-economic innovation; growth in citizen-generated data and the internet of things; emerging theory, methods, and frameworks for understanding Smart Cities. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing or above in any program. Second year students may be admitted with permission of instructor.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
PLAN_V 341-0T3	PLAN_V	341	0T3	Smart Cities: Concepts, Methods and Design	W2	Rapid transformation of cities by information technology and socio-economic innovation; growth in citizen-generated data and the internet of things; emerging theory, methods, and frameworks for understanding Smart Cities. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing or above in any program. Second year students may be admitted with permission of instructor.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
PLAN_V 351-001	PLAN_V	351	001	Green Cities	W1	The key social and technological challenges, contradictions, and opportunities in planning for ecologically sound urbanization. Prerequisite: Second-year standing.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PLAN_V 361-001	PLAN_V	361	001	Community Planning in a World of Diversity	W1	Examination of how the diverse, multicultural, and cosmopolitan aspects of cities create challenges and opportunities for community planning. Prerequisite: Third-year standing.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
PLAN_V 425-002	PLAN_V	425	002	Urban Planning Issues and Concepts	W2	Evolution, practice and future of urban planning and development, with emphasis on institutional arrangements, housing, transportation, urban design and development control. For third- and fourth-year undergraduate students interested in urban planning. This course is not eligible for Credit/D/Fail grading. [3-0]	In Person Learning	Fri	8:00 a.m. - 11:00 a.m.
PLAN_V 452-001	PLAN_V	452	001	Urban Studies Capstone II	W2	Application of key elements of urban studies theory, concepts, and methods to a community-engaged urban challenge. Prerequisite: GEOG 451. Fourth-year standing. Equivalency: URST452	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
PLAN_V 500-001	PLAN_V	500	001	Comparative Perspectives on Planning History and Futures	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
PLAN_V 501-001	PLAN_V	501	001	Reconciliation and Planning	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
PLAN_V 502-001	PLAN_V	502	001	Sustainability and Resilience in Planning	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
PLAN_V 504-001	PLAN_V	504	001	Urban Design and Visual Representation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PLAN_V 505-001	PLAN_V	505	001	Planning Theory, Values, and Ethics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
PLAN_V 505-002	PLAN_V	505	002	Planning Theory, Values, and Ethics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
PLAN_V 506-001	PLAN_V	506	001	Information and Analysis in Planning	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
PLAN_V 507-001	PLAN_V	507	001	Engagement and Facilitation for Planners	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PLAN_V 507-002	PLAN_V	507	002	Engagement and Facilitation for Planners	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
PLAN_V 511-001	PLAN_V	511	001	The Legal and Institutional Context of Planning	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
PLAN_V 512-001	PLAN_V	512	001	Urban Economics, Infrastructure, and Real Estate Issues in Planning	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:30 p.m. - 4:30 p.m.
PLAN_V 513-001	PLAN_V	513	001	Making and Implementing Community and Regional Plans	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.

PLAN_V 514-001	PLAN_V	514	001	Indigenous Planning: Ways of Being, Knowing and Doing	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Sat (Alternate weeks)	9:30 a.m. - 4:30 p.m.
PLAN_V 515-001	PLAN_V	515	001	Indigenous Law, Governance and Community Planning	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	6:30 p.m. - 9:30 p.m.
PLAN_V 516-001	PLAN_V	516	001	Planning for Community Economic Development	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Wed Thu Fri	1:00 p.m. - 9:00 p.m.
PLAN_V 527-A_001	PLAN_V	527	A_A_001	Internship	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLAN_V 527-A_002	PLAN_V	527	A_A_002	Internship	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLAN_V 527-A_003	PLAN_V	527	A_A_003	Internship	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLAN_V 527-B_001	PLAN_V	527	B_B_001	Internship	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLAN_V 527-B_002	PLAN_V	527	B_B_002	Internship	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLAN_V 527-B_003	PLAN_V	527	B_B_003	Internship	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLAN_V 531-001	PLAN_V	531	001	Planning for Disaster-Resilient Communities	W1	Natural disasters from the perspective of risk analysis, risk reduction, and planning for disaster-resilient communities. Focus primarily on Canada and the U.S. but includes disaster risk globally. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
PLAN_V 532-001	PLAN_V	532	001	Strategic Planning: Developing and Implementing Policy Plans	W2	Theory and practice of developing and implementing plans for sustainable regions, cities, and neighbourhoods. Combining land use, transportation, environment, socio-economic, and financial directions, managing plan making including public participation, and writing council reports. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PLAN_V 540-001	PLAN_V	540	001	Planning Praxis	W2	Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PLAN_V 540-002	PLAN_V	540	002	Planning Praxis	W2	Pass/fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon (Alternate weeks)	8:00 a.m. - 11:00 a.m.
PLAN_V 541-001	PLAN_V	541	001	Planning Studio	W1-2		In Person Learning	Tue	1:00 p.m. - 4:00 p.m.
PLAN_V 542-001	PLAN_V	542	001	Practical Practice: City Planning as a Craft	W1	Approach, role, style, and essential skills of practical urban planning: working at the community level; developing overall policy; managing development; undertaking urban design; and engaging in the political process. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
PLAN_V 543-001	PLAN_V	543	001	Indigenous Community Planning Practicum	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 4:00 p.m.
PLAN_V 548-A_001	PLAN_V	548	A_A_001	Current Issues in Planning	W1	Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PLAN_V 548-G_001	PLAN_V	548	G_G_001	Current Issues in Planning	W1	Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
PLAN_V 548-L_001	PLAN_V	548	L_L_001	Current Issues in Planning	W1	Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	1:30 p.m. - 3:00 p.m.
PLAN_V 548-O_001	PLAN_V	548	O_O_001	Current Issues in Planning	W1	Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
PLAN_V 548-R_001	PLAN_V	548	R_R_001	Current Issues in Planning	W1	Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
PLAN_V 548-S_001	PLAN_V	548	S_S_001	Current Issues in Planning	W1	Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
PLAN_V 548-T_001	PLAN_V	548	T_T_001	Current Issues in Planning	W2	Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.

PLAN_V 549-C_001	PLAN_V	549	C	C_001	Master's Thesis	W1	Research and preparation of a thesis on a topic in public policy or professional practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 549-C_002	PLAN_V	549	C	C_002	Master's Thesis	W2	Research and preparation of a thesis on a topic in public policy or professional practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 550-A_001	PLAN_V	550	A	A_001	Directed Studies	W1	With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 550-A_002	PLAN_V	550	A	A_002	Directed Studies	W2	With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 550-A_003	PLAN_V	550	A	A_003	Directed Studies	W1-2	With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 550-B_001	PLAN_V	550	B	B_001	Directed Studies	W1	With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 550-B_002	PLAN_V	550	B	B_002	Directed Studies	W2	With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 550-B_003	PLAN_V	550	B	B_003	Directed Studies	W1-2	With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLAN_V 558-001	PLAN_V	558		001	The Role of Theory in Planning Research	W1	This course will be taken in the first term of the Master's program. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:00 p.m. - 3:00 p.m.
PLAN_V 559-001	PLAN_V	559		001	Design of Planning- and Policy-Oriented Research	W2	Research design for SCARP thesis-based Master's students. Approaches for designing research methodologies and thesis structure. Selection processes for research focus; linking research problems to methodological sources; logics of structuring the thesis. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
PLAN_V 560-001	PLAN_V	560		001	Master's Thesis Workshop	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
PLAN_V 580-001	PLAN_V	580		001	Urban Transportation Planning	W1	Topics include the relationship between transportation and urban activity systems; analysis of supply and demand; accessibility and environment; institutional arrangements and public finance. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
PLAN_V 580-002	PLAN_V	580		002	Urban Transportation Planning	W1	Topics include the relationship between transportation and urban activity systems; analysis of supply and demand; accessibility and environment; institutional arrangements and public finance. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
PLAN_V 587-A_001	PLAN_V	587	A	A_001	Urban Design	W2	A studio/seminar on the history of the physical form of cities and theories of city design. Topics include social impacts, heritage and environmental conservation, urban revitalization, and the legal and administrative instruments for the implementation of city designs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
PLAN_V 602-001	PLAN_V	602		001	Planning Theory Advanced Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
PLAN_V 603-001	PLAN_V	603		001	Ph.D. Colloquium	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	12:00 p.m. - 3:00 p.m.
PLAN_V 649-001	PLAN_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
PLAN_V 649-002	PLAN_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
PLAN_V 649-003	PLAN_V	649		003	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
PLAN_V 649-DNU_003	PLAN_V	649		DNU_003	Doctoral Dissertation	W1-2		Hybrid Learning	Arranged	Arranged
PLNT_V 505-002	PLNT_V	505		002	Plant-Water Relations for Sustainable Agriculture	W2	Water requirements of woody perennial crops for production and survival, application of physiological stress thresholds for irrigation management. Credit will be granted for only one of PLNT 505, APBI 405, APBI 351, BIOL 351, FRST 311. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
PLNT_V 523-001	PLNT_V	523		001	Graduate Research Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLNT_V 523-002	PLNT_V	523		002	Graduate Research Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

PLNT_V 523-003	PLNT_V	523		003	Graduate Research Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 3:30 p.m.
PLNT_V 530-B_001	PLNT_V	530	B	B_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 530-B_002	PLNT_V	530	B	B_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 530-B_003	PLNT_V	530	B	B_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 530-D_003	PLNT_V	530	D	D_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 530-F_001	PLNT_V	530	F	F_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 530-F_002	PLNT_V	530	F	F_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 530-F_003	PLNT_V	530	F	F_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 540-101	PLNT_V	540		101	Plant Molecular Biology Laboratory	W1	Techniques of purification, cloning, sequencing, restriction-hybridization analysis of plant nucleic acids, in vitro labelling of plant nucleic acids and proteins, and electrophoresis and immunodetection of plant proteins. Offered by the Biotechnology Teaching Laboratory in cooperation with Plant Science. Admissions to the course is limited and requires recommendation from the Program Coordinator. This course is not eligible for Credit/D/Fail grading. Recommended: BIOL 335. Equivalency: BOTAS44, FRST503	In Person Learning	Thu	10:00 a.m. - 4:00 p.m.
PLNT_V 549-A_001	PLNT_V	549	A	A_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 549-A_002	PLNT_V	549	A	A_002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 549-A_003	PLNT_V	549	A	A_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PLNT_V 590-A_001	PLNT_V	590	A	A_001	Advanced Topics in Plant Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
PLNT_V 590-B_002	PLNT_V	590	B	B_002	Advanced Topics in Plant Science	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PLNT_V 590-F_001	PLNT_V	590	F	F_001	Advanced Topics in Plant Science	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PLNT_V 649-001	PLNT_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
PLNT_V 649-002	PLNT_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
PLNT_V 649-003	PLNT_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
POLI_V 100-001	POLI_V	100		001	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
POLI_V 100-002	POLI_V	100		002	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
POLI_V 100-003	POLI_V	100		003	Introduction to Politics	W2	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 100-004	POLI_V	100		004	Introduction to Politics	W2	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.





POLI_V 100-L5F	POLI_V	100	L5F	Introduction to Politics	W2	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	Online Learning	Thu	12:00 p.m. - 1:00 p.m.
POLI_V 100-L5G	POLI_V	100	L5G	Introduction to Politics	W2	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	Online Learning	Fri	2:30 p.m. - 3:30 p.m.
POLI_V 100-L5H	POLI_V	100	L5H	Introduction to Politics	W2	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	Online Learning	Fri	1:30 p.m. - 2:30 p.m.
POLI_V 100-L5I	POLI_V	100	L5I	Introduction to Politics	W2	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	Online Learning	Tue	3:00 p.m. - 4:00 p.m.
POLI_V 100-LX1	POLI_V	100	LX1	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Mon	4:00 p.m. - 5:00 p.m.
POLI_V 100-LX2	POLI_V	100	LX2	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
POLI_V 100-LX3	POLI_V	100	LX3	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Arranged	Arranged
POLI_V 100-LX4	POLI_V	100	LX4	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
POLI_V 100-LX5	POLI_V	100	LX5	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Thu	3:30 p.m. - 4:30 p.m.
POLI_V 100-LX6	POLI_V	100	LX6	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
POLI_V 100-LZ1	POLI_V	100	LZ1	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
POLI_V 100-LZ2	POLI_V	100	LZ2	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
POLI_V 100-LZ3	POLI_V	100	LZ3	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Tue	11:30 a.m. - 12:30 p.m.
POLI_V 100-LZ4	POLI_V	100	LZ4	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
POLI_V 100-LZ5	POLI_V	100	LZ5	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
POLI_V 100-LZ6	POLI_V	100	LZ6	Introduction to Politics	W1	Political issues and case studies, drawn from Canadian and international contexts, will be used to introduce students to central debates and concepts of politics and political analysis.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
POLI_V 101-001	POLI_V	101	001	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
POLI_V 101-002	POLI_V	101	002	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 101-099	POLI_V	101	099	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
POLI_V 101-227	POLI_V	101	227	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
POLI_V 101-L1A	POLI_V	101	L1A	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
POLI_V 101-L1B	POLI_V	101	L1B	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
POLI_V 101-L1C	POLI_V	101	L1C	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.

POLI_V 101-L1D	POLI_V	101	L1D	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	11:00 a.m. - 12:00 p.m.
POLI_V 101-L1E	POLI_V	101	L1E	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
POLI_V 101-L1F	POLI_V	101	L1F	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	3:00 p.m. - 4:00 p.m.
POLI_V 101-L1G	POLI_V	101	L1G	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
POLI_V 101-L1H	POLI_V	101	L1H	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
POLI_V 101-L1I	POLI_V	101	L1I	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
POLI_V 101-L1J	POLI_V	101	L1J	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
POLI_V 101-L1K	POLI_V	101	L1K	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
POLI_V 101-L1L	POLI_V	101	L1L	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
POLI_V 101-L1M	POLI_V	101	L1M	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
POLI_V 101-L1N	POLI_V	101	L1N	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	3:00 p.m. - 4:00 p.m.
POLI_V 101-L1O	POLI_V	101	L1O	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
POLI_V 101-L1P	POLI_V	101	L1P	The Government of Canada	W1	An examination of the institutions and processes of Canadian government.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
POLI_V 101-L2A	POLI_V	101	L2A	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
POLI_V 101-L2B	POLI_V	101	L2B	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
POLI_V 101-L2C	POLI_V	101	L2C	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
POLI_V 101-L2D	POLI_V	101	L2D	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	1:00 p.m. - 2:00 p.m.
POLI_V 101-L2E	POLI_V	101	L2E	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
POLI_V 101-L2F	POLI_V	101	L2F	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
POLI_V 101-L2G	POLI_V	101	L2G	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
POLI_V 101-L2H	POLI_V	101	L2H	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
POLI_V 101-L2I	POLI_V	101	L2I	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
POLI_V 101-L2J	POLI_V	101	L2J	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	9:30 a.m. - 10:30 a.m.

POLI_V 101-L2K	POLI_V	101	L2K	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
POLI_V 101-L2L	POLI_V	101	L2L	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
POLI_V 101-L2M	POLI_V	101	L2M	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
POLI_V 101-L2N	POLI_V	101	L2N	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
POLI_V 101-L2O	POLI_V	101	L2O	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
POLI_V 101-LX1	POLI_V	101	LX1	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
POLI_V 101-LX2	POLI_V	101	LX2	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Mon	5:00 p.m. - 6:00 p.m.
POLI_V 101-LX3	POLI_V	101	LX3	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
POLI_V 101-LX4	POLI_V	101	LX4	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
POLI_V 101-LX5	POLI_V	101	LX5	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
POLI_V 101-LX6	POLI_V	101	LX6	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
POLI_V 101-LZ1	POLI_V	101	LZ1	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
POLI_V 101-LZ2	POLI_V	101	LZ2	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	11:30 a.m. - 12:30 p.m.
POLI_V 101-LZ3	POLI_V	101	LZ3	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.
POLI_V 101-LZ4	POLI_V	101	LZ4	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
POLI_V 101-LZ5	POLI_V	101	LZ5	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
POLI_V 101-LZ6	POLI_V	101	LZ6	The Government of Canada	W2	An examination of the institutions and processes of Canadian government.	In Person Learning	Thu	3:00 p.m. - 4:00 p.m.
POLI_V 110-001	POLI_V	110	001	Investigating Politics: An Introduction to Scientific Political Analysis	W1	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
POLI_V 110-002	POLI_V	110	002	Investigating Politics: An Introduction to Scientific Political Analysis	W2	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
POLI_V 110-L1A	POLI_V	110	L1A	Investigating Politics: An Introduction to Scientific Political Analysis	W1	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Tue	8:00 a.m. - 9:00 a.m.
POLI_V 110-L1B	POLI_V	110	L1B	Investigating Politics: An Introduction to Scientific Political Analysis	W1	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
POLI_V 110-L1C	POLI_V	110	L1C	Investigating Politics: An Introduction to Scientific Political Analysis	W1	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Tue	2:00 p.m. - 3:00 p.m.
POLI_V 110-L1D	POLI_V	110	L1D	Investigating Politics: An Introduction to Scientific Political Analysis	W1	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Wed	9:00 a.m. - 10:00 a.m.



POLI_V 110-L2M	POLI_V	110		L2M	Investigating Politics: An Introduction to Scientific Political Analysis	W2	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Wed	4:30 p.m. - 5:30 p.m.
POLI_V 110-L2N	POLI_V	110		L2N	Investigating Politics: An Introduction to Scientific Political Analysis	W2	The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.	In Person Learning	Mon	3:30 p.m. - 4:30 p.m.
POLI_V 220-A_001	POLI_V	220	A	A_001	Choice and Conflict: An Introduction to Domestic Politics around the World	W1	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
POLI_V 220-A_L1A	POLI_V	220	A	A_L1A	Choice and Conflict: An Introduction to Domestic Politics around the World	W1	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Mon	3:30 p.m. - 4:30 p.m.
POLI_V 220-A_L1B	POLI_V	220	A	A_L1B	Choice and Conflict: An Introduction to Domestic Politics around the World	W1	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Wed	3:30 p.m. - 4:30 p.m.
POLI_V 220-A_L1C	POLI_V	220	A	A_L1C	Choice and Conflict: An Introduction to Domestic Politics around the World	W1	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Tue	1:00 p.m. - 2:00 p.m.
POLI_V 220-A_L1D	POLI_V	220	A	A_L1D	Choice and Conflict: An Introduction to Domestic Politics around the World	W1	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
POLI_V 220-A_L1E	POLI_V	220	A	A_L1E	Choice and Conflict: An Introduction to Domestic Politics around the World	W1	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
POLI_V 220-A_L1F	POLI_V	220	A	A_L1F	Choice and Conflict: An Introduction to Domestic Politics around the World	W1	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
POLI_V 220-B_002	POLI_V	220	B	B_002	Choice and Conflict: An Introduction to Domestic Politics around the World	W2	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
POLI_V 220-B_L2A	POLI_V	220	B	B_L2A	Choice and Conflict: An Introduction to Domestic Politics around the World	W2	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Mon	3:30 p.m. - 4:30 p.m.
POLI_V 220-B_L2B	POLI_V	220	B	B_L2B	Choice and Conflict: An Introduction to Domestic Politics around the World	W2	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
POLI_V 220-B_L2D	POLI_V	220	B	B_L2D	Choice and Conflict: An Introduction to Domestic Politics around the World	W2	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Thu	12:30 p.m. - 1:30 p.m.
POLI_V 220-B_L2F	POLI_V	220	B	B_L2F	Choice and Conflict: An Introduction to Domestic Politics around the World	W2	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
POLI_V 220-B_L2I	POLI_V	220	B	B_L2I	Choice and Conflict: An Introduction to Domestic Politics around the World	W2	A theoretical and comparative analysis of the patterns and problems of domestic politics in countries around the world. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
POLI_V 240-001	POLI_V	240		001	Currents of Political Thought	W1	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
POLI_V 240-002	POLI_V	240		002	Currents of Political Thought	W2	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
POLI_V 240-L1B	POLI_V	240		L1B	Currents of Political Thought	W1	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
POLI_V 240-L1C	POLI_V	240		L1C	Currents of Political Thought	W1	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
POLI_V 240-L1D	POLI_V	240		L1D	Currents of Political Thought	W1	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
POLI_V 240-L1F	POLI_V	240		L1F	Currents of Political Thought	W1	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Tue	3:00 p.m. - 4:00 p.m.
POLI_V 240-L1G	POLI_V	240		L1G	Currents of Political Thought	W1	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
POLI_V 240-L1H	POLI_V	240		L1H	Currents of Political Thought	W1	A critical introduction to some major ideologies and traditions of Western political thought that examines their philosophical origins as well as their implications for political life. Prerequisite: Second-year standing or above, OR completion of POLI 100, POLI 101, and POLI 110.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.





POLI_V 260-L3F	POLI_V	260		L3F	Introduction to Global Politics	W2	Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required.All of POLI 100, POLI 101, POLI 110.	Online Learning	Fri	2:00 p.m. - 3:00 p.m.
POLI_V 260-L3G	POLI_V	260		L3G	Introduction to Global Politics	W2	Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required.All of POLI 100, POLI 101, POLI 110.	Online Learning	Wed	2:00 p.m. - 3:00 p.m.
POLI_V 260-L3H	POLI_V	260		L3H	Introduction to Global Politics	W2	Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required.All of POLI 100, POLI 101, POLI 110.	Online Learning	Mon	1:00 p.m. - 2:00 p.m.
POLI_V 260-L3I	POLI_V	260		L3I	Introduction to Global Politics	W2	Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required.All of POLI 100, POLI 101, POLI 110.	Online Learning	Thu	2:00 p.m. - 3:00 p.m.
POLI_V 260-L3J	POLI_V	260		L3J	Introduction to Global Politics	W2	Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required.All of POLI 100, POLI 101, POLI 110.	Online Learning	Fri	3:00 p.m. - 4:00 p.m.
POLI_V 260-L3K	POLI_V	260		L3K	Introduction to Global Politics	W2	Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required.All of POLI 100, POLI 101, POLI 110.	Online Learning	Thu	3:00 p.m. - 4:00 p.m.
POLI_V 260-L3L	POLI_V	260		L3L	Introduction to Global Politics	W2	Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required.All of POLI 100, POLI 101, POLI 110.	Online Learning	Fri	11:00 a.m. - 12:00 p.m.
POLI_V 302-A_001	POLI_V	302	A	A_001	Public Administration	W1	The structure and organization of the administrative branch of government in theory and practice. Administrative powers and policy-making in the modern state. Examples of the administrative processes are drawn from Canada and other countries. Prerequisite: All of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
POLI_V 303-001	POLI_V	303		001	Federalism in Canada	W1	Theory and practice of Canadian federalism, its relationship to public policy, cultural pluralism, social stresses, and role of the courts. Prerequisite: All of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 304-001	POLI_V	304		001	British Columbia Government and Politics	W1	An examination of political history, party politics, and public policy in British Columbia. Prerequisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
POLI_V 305-001	POLI_V	305		001	Canadian Political Ideas	W2	Political theories and ideologies in Canada. Prerequisite: All of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 308-D_001	POLI_V	308	D	D_001	Topics in Canadian Politics	W1	An important topic in Canadian politics and public policies. Possible topics include elections, media, and gender and identity. Topics vary year to year; see www.politics.ubc.ca/courses. Prerequisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	4:00 p.m. - 6:00 p.m.
POLI_V 310-001	POLI_V	310		001	The Strategy of Politics	W1	Uses game theory to show how politicians strike bargains, outmanoeuvre opponents, and manipulate institutional rules. Prerequisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
POLI_V 320-A_001	POLI_V	320	A	A_001	Government and Politics of the United States of America	W1	The distinctive political system of the U.S. Covers all major institutions and processes, focusing on contemporary issues. Comparisons with the Canadian system. Sources of political failure and possible reform. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 320-B_001	POLI_V	320	B	B_001	Government and Politics of the United States of America	W1	The distinctive political system of the U.S. Covers all major institutions and processes, focusing on contemporary issues. Comparisons with the Canadian system. Sources of political failure and possible reform. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 321-A_001	POLI_V	321	A	A_001	Chinese Politics and Development	W1	The course will explore various aspects of Chinese politics and the dynamics of China's development since 1949. Topics include: the Cultural Revolution, political reform and protest, and economic reform policies and their consequences. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 324-A_001	POLI_V	324	A	A_001	Southeast Asian Government and Politics	W1	The political systems of contemporary Southeast Asia. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Fri	12:30 p.m. - 2:00 p.m.
POLI_V 327-001	POLI_V	327		001	European Integration	W1	Post-1945 integration of Europe, comparison of national politics and attitudes to integration, and the history and institutions of the European Union. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
POLI_V 328-C_001	POLI_V	328	C	C_001	Topics in Comparative Politics	W2	Topics will vary from year to year. Consult the departmental website. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
POLI_V 328-F_001	POLI_V	328	F	F_001	Topics in Comparative Politics	W2	Topics will vary from year to year. Consult the departmental website. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
POLI_V 328-G_001	POLI_V	328	G	G_001	Topics in Comparative Politics	W1	Topics will vary from year to year. Consult the departmental website. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
POLI_V 332-A_001	POLI_V	332	A	A_001	Politics and Government of Latin America	W2	A comparative examination of democracy and authoritarianism in Latin America: populism, corporatism, bureaucratic authoritarianism, transitions from authoritarianism, and contemporary debates on the quality and diversity of democratic institutions. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.

POLI_V 333-A_001	POLI_V	333	A	A_001	Issues in Comparative Politics	W2	An examination of a major issue in comparative politics (e.g., the media, gender, nationalism, ethnic conflict). Topics will vary from year to year. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 333-C_001	POLI_V	333	C	C_001	Issues in Comparative Politics	W1	An examination of a major issue in comparative politics (e.g., the media, gender, nationalism, ethnic conflict). Topics will vary from year to year. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
POLI_V 333-D_001	POLI_V	333	D	D_001	Issues in Comparative Politics	W2	An examination of a major issue in comparative politics (e.g., the media, gender, nationalism, ethnic conflict). Topics will vary from year to year. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 333-M_001	POLI_V	333	M	M_001	Issues in Comparative Politics	W2	An examination of a major issue in comparative politics (e.g., the media, gender, nationalism, ethnic conflict). Topics will vary from year to year. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	12:00 p.m. - 1:30 p.m.
POLI_V 338-B_001	POLI_V	338	B	B_001	Politics and Development	W1	The relationship between political institutions and economic growth. How governments shape economic policy and development aid. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	Online Learning	Tue Thu	4:00 p.m. - 5:30 p.m.
POLI_V 338-B_002	POLI_V	338	B	B_002	Politics and Development	W2	The relationship between political institutions and economic growth. How governments shape economic policy and development aid. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	Online Learning	Mon Fri	11:00 a.m. - 12:30 p.m.
POLI_V 341-B_001	POLI_V	341	B	B_001	Contemporary Political Theory	W2	Topics may include freedom, colonialism, capitalism, Critical Theory and ideology, power and knowledge, social justice, rationalism, gender and identity politics, and the political. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
POLI_V 341-C_001	POLI_V	341	C	C_001	Contemporary Political Theory	W1	Topics may include freedom, colonialism, capitalism, Critical Theory and ideology, power and knowledge, social justice, rationalism, gender and identity politics, and the political. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 341-E_001	POLI_V	341	E	E_001	Contemporary Political Theory	W1	Topics may include freedom, colonialism, capitalism, Critical Theory and ideology, power and knowledge, social justice, rationalism, gender and identity politics, and the political. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 345-A_001	POLI_V	345	A	A_001	Gender and Politics: Political Thought and Practice	W2	The role of gender in Western political theory and the implications for the practice of politics. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
POLI_V 347-A_001	POLI_V	347	A	A_001	Law and Political Theory	W1	An examination of law and political theory that considers topics such as sovereignty, constitutionalism, civil disobedience, rights and the political role of judges. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
POLI_V 348-001	POLI_V	348		001	Political Theory and Public Policy	W1	Application of frameworks to policy questions that factor in debates about citizenship and social inclusion, and an examination of contemporary normative frameworks that fall along, and transcend, the left-right political spectrum. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
POLI_V 350-A_001	POLI_V	350	A	A_001	Public Policy	W2	An introduction to public policy: rationales for government intervention, the influence of interest groups and political institutions on policy outcomes, and the various stages in the policy process. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
POLI_V 351-001	POLI_V	351		001	Environmental Politics and Policy	W2	Domestic and international determinants of environmental policy; alternative approaches to environmental protection. The sustainable development paradigm; public opinion and interest group pressures; risk assessment; mandatory, voluntary and market-based policy instruments. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
POLI_V 360-A_001	POLI_V	360	A	A_001	Security Studies	W1	The contemporary international security context: reorientation of the study of security, patterns of inter- and intrastate conflict and communal violence, dilemmas of international response and conflict management. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
POLI_V 360-A_002	POLI_V	360	A	A_002	Security Studies	W2	The contemporary international security context: reorientation of the study of security, patterns of inter- and intrastate conflict and communal violence, dilemmas of international response and conflict management. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
POLI_V 362-001	POLI_V	362		001	The Great Powers and International Politics	W1	An examination of the changing nature of Great Power relations, including procedures and institutions for managing their conflicts, in the pre-Cold War, Cold War, and post-Cold War international systems. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	Online Learning	Mon Wed	4:00 p.m. - 5:30 p.m.
POLI_V 363-A_001	POLI_V	363	A	A_001	Canadian Foreign Policy	W2	An analysis of Canadian foreign policy on important international issues since the 1960s and of the policy-making process. Issues may include defence commitments, economic relations, activities of international organizations, and relations with the US, Europe, USSR, Asia and the Third World. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 365-B_001	POLI_V	365	B	B_001	Asian International Relations	W1	Analysis of the foreign policies of one or more of the states of East, Southeast, and South Asia; their relations with other states in the region as well as with major outside powers. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 365-C_001	POLI_V	365	C	C_001	Asian International Relations	W2	Analysis of the foreign policies of one or more of the states of East, Southeast, and South Asia; their relations with other states in the region as well as with major outside powers. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
POLI_V 366-001	POLI_V	366		001	International Political Economy	W2	An analysis of governmental policies and international political bargaining in regard to such issues as international investment, trade, and monetary relations. Recommended pre-requisite: ECON 100 or 309. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 369-B_001	POLI_V	369	B	B_001	Topics in International Security	W2	Possible topics include armed conflict, terrorism, environmental change, or international crime. Topics vary year to year, see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Arranged	Arranged

POLI_V 369-H_001	POLI_V	369	H	H_001	Topics in International Security	W2	Possible topics include armed conflict, terrorism, environmental change, or international crime. Topics vary year to year, see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
POLI_V 369-I_001	POLI_V	369	I	I_001	Topics in International Security	W2	Possible topics include armed conflict, terrorism, environmental change, or international crime. Topics vary year to year, see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
POLI_V 369-J_001	POLI_V	369	J	J_001	Topics in International Security	W1	Possible topics include armed conflict, terrorism, environmental change, or international crime. Topics vary year to year, see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
POLI_V 369-K_001	POLI_V	369	K	K_001	Topics in International Security	W1	Possible topics include armed conflict, terrorism, environmental change, or international crime. Topics vary year to year, see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
POLI_V 370-D_003	POLI_V	370	D	D_003	Topics in International Conflict Management	W2	Problems of managing conflict in the international system. Possible topics include intervention, mediation, or sanctions. Topics vary year to year; see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
POLI_V 370-K_001	POLI_V	370	K	K_001	Topics in International Conflict Management	W1	Problems of managing conflict in the international system. Possible topics include intervention, mediation, or sanctions. Topics vary year to year; see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
POLI_V 370-K_002	POLI_V	370	K	K_002	Topics in International Conflict Management	W2	Problems of managing conflict in the international system. Possible topics include intervention, mediation, or sanctions. Topics vary year to year; see www.politics.ubc.ca/courses. Pre-requisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
POLI_V 371-001	POLI_V	371		001	Humanitarian Engineering: Politics and Practice	W1	An interdisciplinary study of best practice, politics, and ethics associated with technical solutions to humanitarian assistance within Canada and abroad; examines policies used in aid and development contexts with emphasis on the application of engineering. Restricted to students with a Major, Combined Major, Honours, Honours with, or Minor specialization in Political Science or International Relations, or at least third-year standing in any BASC program. Credit will be granted for only one of POLI 371 or APSC 367. Equivalency: APSC 367	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.
POLI_V 374-A_001	POLI_V	374	A	A_001	International Peacekeeping	W2	The development of peacekeeping within and outside the United Nations system and as an instrument of conflict management. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
POLI_V 375-A_001	POLI_V	375	A	A_001	Global Environmental Politics	W1	Ecological consequences of the global political economy. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
POLI_V 375-A_002	POLI_V	375	A	A_002	Global Environmental Politics	W2	Ecological consequences of the global political economy. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
POLI_V 376-002	POLI_V	376		002	International Law	W1	The nature, sources, and sanctions of international law; the notion of nationhood with particular reference to the status of the British Dominions; territorial and extra-territorial jurisdiction; diplomatic and sovereign immunities; international delinquency; treaties; settlement of disputes; international organizations. This course may not be taken for credit in both Arts and Law. Credit will be granted for only one of POLI 376 or LAW 316. Prerequisite: All of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher. Equivalency: LAW 316	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
POLI_V 377-001	POLI_V	377		001	Nuclear Weapons and Arms Control	W1	Evolution and contemporary significance of nuclear weapons and arms control policy and technology from the perspective of the physical and life sciences and the social sciences and humanities. Credit will be granted for only one of POLI 377 or APSC 377. Prerequisite: All of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher. Equivalency: APSC377	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
POLI_V 378-A_001	POLI_V	378	A	A_001	The Politics of Terrorism	W1	Exploration of contemporary terrorism as a contested area of understanding and as a social construct. Includes origins and motives, evolution of terrorist groups, strategies and tactics, and anti-terrorism and counter-terrorism responses. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
POLI_V 378-A_002	POLI_V	378	A	A_002	The Politics of Terrorism	W2	Exploration of contemporary terrorism as a contested area of understanding and as a social construct. Includes origins and motives, evolution of terrorist groups, strategies and tactics, and anti-terrorism and counter-terrorism responses. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
POLI_V 380-001	POLI_V	380		001	Quantitative Methods in Political Science	W1	An introduction to quantitative methods as utilized in the study of Political Science. Not available for credit in the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading. Prerequisite: POLI 110. Third-year standing or higher OR the completion of POLI 100, 101, and 240 required.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
POLI_V 380-002	POLI_V	380		002	Quantitative Methods in Political Science	W2	An introduction to quantitative methods as utilized in the study of Political Science. Not available for credit in the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading. Prerequisite: POLI 110. Third-year standing or higher OR the completion of POLI 100, 101, and 240 required.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
POLI_V 381-A_001	POLI_V	381	A	A_001	Managing Quantitative Data in Political Science	W2	The basics of quantitative analysis and managing data in Political Science, including the sourcing, construction, cleaning, manipulation, and visualization of data sets.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
POLI_V 390-001	POLI_V	390		001	Honours Seminar	W1	An examination of the dimensions of Political Science and the major debates within the discipline. Restricted to students with an Honours or Honours with specialization in Political Science.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
POLI_V 395-001	POLI_V	395		001	Political Science in Practice	W2	The practical application of political science capacities and knowledge. Restricted to Political Science and International Relations Majors and Minors. Pass/Fail	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
POLI_V 405-A_001	POLI_V	405	A	A_001	Advanced Topics in Canadian Politics	W1	Important topics in Canadian politics and public policies. Possible topics include elections, gender and identity, or media. Topics vary year to year; see www.politics.ubc.ca/courses. Restricted to students in fourth-year standing or above.	In Person Learning	Arranged	Arranged

POLI_V 405-E_001	POLI_V	405	E	E_001	Advanced Topics in Canadian Politics	W2	Important topics in Canadian politics and public policies. Possible topics include elections, gender and identity, or media. Topics vary year to year; see www.politics.ubc.ca/courses. Restricted to students in fourth-year standing or above.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
POLI_V 405-H_001	POLI_V	405	H	H_001	Advanced Topics in Canadian Politics	W2	Important topics in Canadian politics and public policies. Possible topics include elections, gender and identity, or media. Topics vary year to year; see www.politics.ubc.ca/courses. Restricted to students in fourth-year standing or above.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
POLI_V 420-B_001	POLI_V	420	B	B_001	Advanced Topics in Comparative Politics	W1	Seminar in comparative analysis of politics in democratic systems. For specific content in a given year, consult the departmental website. Restricted to students in fourth-year standing or higher.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
POLI_V 422-A_002	POLI_V	422	A	A_002	Selected Problems in Comparative Politics	W2	A seminar devoted to intensive analysis of a contemporary political problem from a comparative perspective, e.g., ethnic politics, class politics, the politics of post-industrial society. For specific content in a given year, consult the departmental website. Restricted to students in fourth-year standing or higher.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
POLI_V 422-X_002	POLI_V	422	X	X_002	Selected Problems in Comparative Politics	W2	A seminar devoted to intensive analysis of a contemporary political problem from a comparative perspective, e.g., ethnic politics, class politics, the politics of post-industrial society. For specific content in a given year, consult the departmental website. Restricted to students in fourth-year standing or higher.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
POLI_V 423-A_001	POLI_V	423	A	A_001	Issues in Comparative Politics	W1	Seminar in comparative analysis of constitutionalism, authoritarianism, democracy, etc. For specific content in a given year, consult the departmental website. Restricted to students in fourth-year standing or higher.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
POLI_V 439-A_001	POLI_V	439	A	A_001	Politics and Economic Growth	W1	The relationship between politics, economics, and development. The role of the state, political institutions, economic policy, and foreign aid in development strategies. Restricted to students in fourth-year standing or higher.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
POLI_V 439-A_002	POLI_V	439	A	A_002	Politics and Economic Growth	W2	This course is not eligible for Credit/D/Fall grading. The relationship between politics, economics, and development. The role of the state, political institutions, economic policy, and foreign aid in development strategies. Restricted to students in fourth-year standing or higher.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
POLI_V 445-A_001	POLI_V	445	A	A_001	Critical Theory: Political Theory and the Problems of Race	W1	Traditions of critical social theory, broadly construed, to examine the modern politics of 'race,' racism, and racialized identities. Restricted to students in fourth-year standing or higher.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
POLI_V 446-B_001	POLI_V	446	B	B_001	Multiculturalism and Identity Politics	W2	Seminar will examine how identity is theorized in contemporary political thought, beginning with the role that identity plays in the western canon and proceeding to examine feminist, multicultural, queer, and post-colonial theories of citizenship along with their critics. Restricted to students in fourth-year standing or higher.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
POLI_V 448-B_001	POLI_V	448	B	B_001	Democratic Theory	W1	Overview of traditional democratic theory with close readings of several contemporary theories, such as those of Habermas, Rawls, and Arendt. Readings are drawn from complete original texts, and assessment is based on a research essay. Restricted to students in fourth-year standing or higher.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
POLI_V 449-A_001	POLI_V	449	A	A_001	Topics in Political Theory	W2	Restricted to students in fourth-year standing or higher.	In Person Learning	Arranged	Arranged
POLI_V 449-B_001	POLI_V	449	B	B_001	Topics in Political Theory	W1	Restricted to students in fourth-year standing or higher.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
POLI_V 449-C_002	POLI_V	449	C	C_002	Topics in Political Theory	W1	Restricted to students in fourth-year standing or higher.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
POLI_V 462-A_001	POLI_V	462	A	A_001	International Relations Theory	W1	This seminar examines some of the major theoretical approaches to the study of international relations. For specific content in a given year, consult the departmental website. Restricted to students in fourth-year standing or higher.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
POLI_V 462-B_002	POLI_V	462	B	B_002	International Relations Theory	W2	This seminar examines some of the major theoretical approaches to the study of international relations. For specific content in a given year, consult the departmental website. Restricted to students in fourth-year standing or higher.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
POLI_V 464-D_002	POLI_V	464	D	D_002	Advanced Topics in International Relations	W1	Topics and public policies related to interactions between states and non-state actors, such as armed conflict management or international institutions. Topics vary year to year; see www.politics.ubc.ca/courses. One section (3 credits) reserved for fourth-year International Relations Majors. Restricted to students in fourth-year standing or above.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
POLI_V 464-D_003	POLI_V	464	D	D_003	Advanced Topics in International Relations	W2	Topics and public policies related to interactions between states and non-state actors, such as armed conflict management or international institutions. Topics vary year to year; see www.politics.ubc.ca/courses. One section (3 credits) reserved for fourth-year International Relations Majors. Restricted to students in fourth-year standing or above.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
POLI_V 464-J_001	POLI_V	464	J	J_001	Advanced Topics in International Relations	W2	Topics and public policies related to interactions between states and non-state actors, such as armed conflict management or international institutions. Topics vary year to year; see www.politics.ubc.ca/courses. One section (3 credits) reserved for fourth-year International Relations Majors. Restricted to students in fourth-year standing or above.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
POLI_V 464-K_001	POLI_V	464	K	K_001	Advanced Topics in International Relations	W1	Topics and public policies related to interactions between states and non-state actors, such as armed conflict management or international institutions. Topics vary year to year; see www.politics.ubc.ca/courses. One section (3 credits) reserved for fourth-year International Relations Majors. Restricted to students in fourth-year standing or above.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
POLI_V 466-001	POLI_V	466		001	The Politics of International Law	W1	Seminar on the origins and politics of international law, and its impact on international affairs; the laws of war, human rights, environment, law of the sea, and international criminal law. Restricted to students in fourth-year standing or higher.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
POLI_V 482-001	POLI_V	482		001	Data and Models Capstone	W2	Seminar on data analysis and modeling in Political Science. Restricted to Certificate in Data and Models in Political Science students. Prerequisite: All of POLI 110, POLI 380, POLI 381.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.

POLI_V 492-001	POLI_V	492		001	Honours Thesis	W1-2	In consultation with faculty, students develop a research project, report on their project during seminars, give feedback on their fellow students' projects, and write a thesis. Restricted to students with an Honours or Honours with specialization in Political Science. Fourth-year standing or higher required. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
POLI_V 504-H_001	POLI_V	504	H	H_001	Topics in Canadian Politics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
POLI_V 511-A_001	POLI_V	511	A	A_001	Core Seminar in Comparative Government and Politics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
POLI_V 513-A_001	POLI_V	513	A	A_001	Current Debates in Comparative Political Economy: Globalization and Democracy	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
POLI_V 514-D_001	POLI_V	514	D	D_001	Comparative Western Governments	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
POLI_V 516-D_002	POLI_V	516	D	D_002	Issues in Comparative Politics	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
POLI_V 516-Y_002	POLI_V	516	Y	Y_002	Issues in Comparative Politics	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
POLI_V 521-A_001	POLI_V	521	A	A_001	Political Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
POLI_V 521-B_001	POLI_V	521	B	B_001	Political Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
POLI_V 523-A_001	POLI_V	523	A	A_001	Political Thought	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
POLI_V 523-B_001	POLI_V	523	B	B_001	Political Thought	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
POLI_V 523-B_002	POLI_V	523	B	B_002	Political Thought	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
POLI_V 547-A_001	POLI_V	547	A	A_001	Topics in Political Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
POLI_V 549-A_001	POLI_V	549	A	A_001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
POLI_V 549-B_001	POLI_V	549	B	B_001	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
POLI_V 549-C_001	POLI_V	549	C	C_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
POLI_V 551-B_001	POLI_V	551	B	B_001	Elections: Parties and Voters	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
POLI_V 561-A_001	POLI_V	561	A	A_001	Core Seminar in International Relations Theory	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
POLI_V 562-A_001	POLI_V	562	A	A_001	Topics in International Relations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
POLI_V 562-D_001	POLI_V	562	D	D_001	Topics in International Relations	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
POLI_V 571-A_001	POLI_V	571	A	A_001	Qualitative Methods of Political Analysis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
POLI_V 572-A_001	POLI_V	572	A	A_001	Quantitative Techniques of Political Analysis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.

POLI_V 572-B_001	POLI_V	572	B	B_001	Quantitative Techniques of Political Analysis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
POLI_V 580-A_001	POLI_V	580	A	A_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
POLI_V 580-B_001	POLI_V	580	B	B_001	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
POLI_V 580-C_001	POLI_V	580	C	C_001	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
POLI_V 649-A_001	POLI_V	649	A	A_001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
POLI_V 649-B_001	POLI_V	649	B	B_001	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
POLI_V 649-C_001	POLI_V	649	C	C_001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
POLS_V 101-101	POLS_V	101		101	Learning Polish: Foundations I	W1	Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at <a href="https://cenex.ubc.ca/courses/">https://cenex.ubc.ca/courses/</a> . Credit will be granted for only one of POLS 101 or POLS 200.	Multi-access Learning	Arranged	Arranged
POLS_V 102-201	POLS_V	102		201	Learning Polish: Foundations II	W2	Continuation of POLS 101. Find out more at <a href="https://cenex.ubc.ca/courses/">https://cenex.ubc.ca/courses/</a> . Credit will be granted for only one of POLS 102 or POLS 200.	Multi-access Learning	Arranged	Arranged
POLS_V 426-201	POLS_V	426		201	The German Nazi Holocaust in Polish Literature and Film (in English)	W2	The German Nazi Holocaust in Polish Literature and film.	In Person Learning	Arranged	Arranged
PORT_V 101-101	PORT_V	101		101	First-Year Portuguese I	W1	Grammar, composition, translation, oral practice. Credit will be granted for only one of PORT 101 or PORT 110.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PORT_V 101-102	PORT_V	101		102	First-Year Portuguese I	W1	Grammar, composition, translation, oral practice. Credit will be granted for only one of PORT 101 or PORT 110.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PORT_V 102-201	PORT_V	102		201	First-Year Portuguese II	W2	Grammar, composition, translation, oral practice. Credit will be granted for only one of PORT 102 or PORT 110. Recommended pre-requisite: PORT 101.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PORT_V 201-101	PORT_V	201		101	Second-Year Portuguese I	W1	Grammar, composition, translation, oral practice, readings. Credit will be granted for only one of PORT 201 or PORT 210. Recommended pre-requisites: one of PORT 102, PORT 110.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PORT_V 202-201	PORT_V	202		201	Second-Year Portuguese II	W2	Grammar, composition, translation, oral practice, readings. Credit may be granted for only one of PORT 202 or PORT 210. Recommended pre-requisite: PORT 201.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PORT_V 222-101	PORT_V	222		101	Introduction to the Analysis of Portuguese and Brazilian Cultures (in English)	W1	Critical analysis of different cultural genres, including music, film and visual art through the study of selected Portuguese and Brazilian texts. Credit will be granted for only one of PORT 222 or RMST 260.	In Person Learning	Arranged	Arranged
PORT_V 222-102	PORT_V	222		102	Introduction to the Analysis of Portuguese and Brazilian Cultures (in English)	W1	Critical analysis of different cultural genres, including music, film and visual art through the study of selected Portuguese and Brazilian texts. Credit will be granted for only one of PORT 222 or RMST 260. Equivalency: RMST 260.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PORT_V 222-201	PORT_V	222		201	Introduction to the Analysis of Portuguese and Brazilian Cultures (in English)	W1	Critical analysis of different cultural genres, including music, film and visual art through the study of selected Portuguese and Brazilian texts. Credit will be granted for only one of PORT 222 or RMST 260. Equivalency: RMST 260.	In Person Learning	Arranged	Arranged
PORT_V 392-201	PORT_V	392		201	Studies in Portuguese and Brazilian Literature (in English)	W2	Selected topics. Please see the Department website for current course offering information. Credit will be granted for only one of PORT 392 or RMST 361. Equivalency: RMST 361.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PPGA_V 391-A_001	PPGA_V	391	A	A_001	Topics in Public Policy and Global Affairs	W2	Topics will vary from year to year. Offerings respond to current policy debates, topics of emerging interest, and interest in specific regions or countries.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PPGA_V 500-A_001	PPGA_V	500	A	A_001	Economics for Policy	W1	Fundamental principles of economics applied to public policy and global affairs. Credit will be granted for only one of PPGA 500 or both PPGA 501, PPGA 502 or both GPP 501, GPP 502. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PPGA_V 500-A_L01	PPGA_V	500	A	A_L01	Economics for Policy	W1	Fundamental principles of economics applied to public policy and global affairs. Credit will be granted for only one of PPGA 500 or both PPGA 501, PPGA 502 or both GPP 501, GPP 502. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.
PPGA_V 500-A_L02	PPGA_V	500	A	A_L02	Economics for Policy	W1	Fundamental principles of economics applied to public policy and global affairs. Credit will be granted for only one of PPGA 500 or both PPGA 501, PPGA 502 or both GPP 501, GPP 502. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	5:00 p.m. - 6:00 p.m.

PPGA_V 500-B_L01	PPGA_V	500	B	B_L01	Economics for Policy	W2	Fundamental principles of economics applied to public policy and global affairs. Credit will be granted for only one of PPGA 500 or both PPGA 501, PPGA 502 or both GPP 501, GPP 502. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 500-B_L02	PPGA_V	500	B	B_L02	Economics for Policy	W2	Fundamental principles of economics applied to public policy and global affairs. Credit will be granted for only one of PPGA 500 or both PPGA 501, PPGA 502 or both GPP 501, GPP 502. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 503-001	PPGA_V	503		001	Measurement and Data Analysis for Policy	W1	Fundamental quantitative tools for policy analysis and program evaluation, including measurement, data visualization, and regression analysis. Introduction of skills for the design and implementation of quantitative policy analysis. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
PPGA_V 503-L01	PPGA_V	503		L01	Measurement and Data Analysis for Policy	W1	Fundamental quantitative tools for policy analysis and program evaluation, including measurement, data visualization, and regression analysis. Introduction of skills for the design and implementation of quantitative policy analysis. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
PPGA_V 503-L02	PPGA_V	503		L02	Measurement and Data Analysis for Policy	W1	Fundamental quantitative tools for policy analysis and program evaluation, including measurement, data visualization, and regression analysis. Introduction of skills for the design and implementation of quantitative policy analysis. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
PPGA_V 503-L03	PPGA_V	503		L03	Measurement and Data Analysis for Policy	W1	Fundamental quantitative tools for policy analysis and program evaluation, including measurement, data visualization, and regression analysis. Introduction of skills for the design and implementation of quantitative policy analysis. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 504-001	PPGA_V	504		001	Policy Analysis and Evaluation	W2	Fundamentals of policy analysis and program evaluation for a professional context. Standard tools of policy analysis, risk assessment, and evaluation to design policy interventions and implement monitoring and evaluation systems for effectiveness. Case studies for government, international organizations, and NGOs. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PPGA_V 504-002	PPGA_V	504		002	Policy Analysis and Evaluation	W2	Fundamentals of policy analysis and program evaluation for a professional context. Standard tools of policy analysis, risk assessment, and evaluation to design policy interventions and implement monitoring and evaluation systems for effectiveness. Case studies for government, international organizations, and NGOs. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PPGA_V 505-001	PPGA_V	505		001	Domestic and Global Policy Processes	W1	Theories and frameworks related to policy-making processes at both the domestic and global levels. Agenda setting, policy formulation and stakeholder engagement, decision-making, policy implementation, and policy evaluation. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PPGA_V 505-002	PPGA_V	505		002	Domestic and Global Policy Processes	W1	Theories and frameworks related to policy-making processes at both the domestic and global levels. Agenda setting, policy formulation and stakeholder engagement, decision-making, policy implementation, and policy evaluation. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
PPGA_V 508-001	PPGA_V	508		001	Policy in Context	W2	Analytical tools for assessing policy in different cultural contexts, inter-cultural communication skills, ethics, and effective community engagement in policy work. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
PPGA_V 508-002	PPGA_V	508		002	Policy in Context	W2	Analytical tools for assessing policy in different cultural contexts, inter-cultural communication skills, ethics, and effective community engagement in policy work. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
PPGA_V 509-001	PPGA_V	509		001	Communicating Policy	W2	The role of media, especially new media, in effectively communicating policy to stakeholders. Focus on communications formats including written, oral, and multimedia policy communications. Examples include policy briefs, presentations, and intercultural communications. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 10:30 a.m.
PPGA_V 509-002	PPGA_V	509		002	Communicating Policy	W2	The role of media, especially new media, in effectively communicating policy to stakeholders. Focus on communications formats including written, oral, and multimedia policy communications. Examples include policy briefs, presentations, and intercultural communications. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 12:30 p.m.
PPGA_V 510-001	PPGA_V	510		001	Professional Practice in Public Policy and Global Affairs	W1	Analysis of professional practice in policy and global affairs, including potential alignment with personal values, strengths, and education. Development of essential professional skills including teamwork and project management. Pass/Fail. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
PPGA_V 511-001	PPGA_V	511		001	Leadership for Policy Professionals	W2	Practical leadership skills and competencies for policy professionals bridging theory to principles and practices in an interactive studio setting. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	3:30 p.m. - 5:00 p.m.
PPGA_V 514-A_001	PPGA_V	514	A	A_001	Research Design and Qualitative Methods	W2	Research design principles and ethics. Methods for qualitative data collection and analysis to inform policy decision making. Focus on participant-observation, interviewing, focus groups, content and gender-based analysis. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
PPGA_V 514-A_002	PPGA_V	514	A	A_002	Research Design and Qualitative Methods	W2	Research design principles and ethics. Methods for qualitative data collection and analysis to inform policy decision making. Focus on participant-observation, interviewing, focus groups, content and gender-based analysis. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 520-001	PPGA_V	520		001	Economics of Poverty	W2	Micro-scale processes of development, including the challenges posed by persistent poverty, and ground-level development solutions. Measurement and empirical evaluation of development interventions and outcomes. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
PPGA_V 521-001	PPGA_V	521		001	Development and Institutions	W1	Introduction to macro-level long-term development processes by which societies improve their standards of living. Development theories, historical drivers; present debates; when and how public policies can best enable economic development. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.

PPGA_V 528-001	PPGA_V	528	001	Emerging Powers	W2	Contemporary power shifts in the global political economy, and the agendas and impact of emerging powers in global politics, economics and governance. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
PPGA_V 541-001	PPGA_V	541	001	Policy Dimensions of Energy Systems	W1	Energy sources, markets, and impacts critical to energy policy, including oil, natural gas and coal markets; electricity and utilities policy; local and global environmental impacts; renewable energy; nuclear power and security; energy efficiency; technological innovation; and energy poverty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.	
PPGA_V 542-001	PPGA_V	542	001	Science, Technology, and Public Policy	W2	Role and influence of science and technology in society, and its relationship to public policy development including: history and economics of technological change. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
PPGA_V 544-001	PPGA_V	544	001	Economic Foundations of Environmental Policies	W1	Environmental and natural resource economics: externalities, property rights, public goods, market failure, inter-generational trade-offs, and optimal extraction of biological and depletable resources. Environmental regulation, industrial competitiveness, and distribution of income and welfare. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.	
PPGA_V 555-A_001	PPGA_V	555	A	A_001	Asia Policy Practice	W1	Practice-oriented course focused on current topics affecting policy in Asia. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 3:30 p.m.
PPGA_V 560-001	PPGA_V	560	001	Global Governance: Frameworks and Policy Debates	W2	Policy-making at the global level, including theories and frameworks of global coordination and global governance. Global, regional, and sub-regional mechanisms. Trade, finance, climate, food regulation, developmental norms, and security. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
PPGA_V 562-001	PPGA_V	562	001	Resource Governance, Environment and Human Security	W1	International policy processes associated with themes of environmental security: disaster prevention; resource curse; institution building and conflict minerals and global expropriation. Issues to be considered include human rights advocacy and peacekeeping, food security and food sovereignty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
PPGA_V 565-001	PPGA_V	565	001	Nationalism, Religion, and Ethnic Conflict in Asia	W2	Ethnic and religious conflict in Asia related to historical and dialectic development of different forms of nationalism; the confluence between religion, ethnicity, and nationalist ideologies in the escalation of conflicts in different Asian societies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PPGA_V 566-001	PPGA_V	566	001	Asia Diplomacy and International Relations	W2	Comprehensive and systematic assessments and analyses of political dynamics, policy behaviors, and diplomatic interactions of Asian countries. Major diplomatic issues, cross-cutting diplomatic challenges, and opportunities facing countries in the region. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.	
PPGA_V 567-001	PPGA_V	567	001	Human Rights and Justice	W2	Linkages between human rights, development and justice and the policy interventions which flow from them. Human rights policy including: international organizations, national actors, non-governmental organizations and communities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
PPGA_V 568-001	PPGA_V	568	001	Global Economic Policy	W1	Key issues, institutions and debates in global economic policymaking. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
PPGA_V 569-001	PPGA_V	569	001	Global Health Policy	W2	Actors, processes and contexts shaping global health policy; politics and policy processes at the global and related levels; impact and influence of dynamics within and between different levels on health disparities and inequitable access to health services and technologies.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
PPGA_V 580-001	PPGA_V	580	001	Internet and Global Affairs	W2	The impact of internet on policy and global affairs structural changes to: economy with reduced transaction costs; media through new publishing forms; politics through new structures for collective action; law through limits of privacy and confidentiality; governance through e-government. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.	
PPGA_V 584-001	PPGA_V	584	001	Policy Responses to Global Climate Change	W1	Climate science and impacts including: carbon management options; mitigation and energy system changes; efficiency options; 'end-of-pipe' solutions; vulnerability and adaptation to climate change; carbon economics and organization-level strategies in a carbon-constrained world. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.	
PPGA_V 590-A_001	PPGA_V	590	A	A_001	Global Policy Project	W1-2	Professional team-based project that incorporates training, feedback on project proposals, possible field work, engagement with client organizations, data gathering and analysis, and a major deliverable such as a policy report. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
PPGA_V 590-A_002	PPGA_V	590	A	A_002	Global Policy Project	W1-2	Professional team-based project that incorporates training, feedback on project proposals, possible field work, engagement with client organizations, data gathering and analysis, and a major deliverable such as a policy report. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 590-B_001	PPGA_V	590	B	B_001	Global Policy Project	W2	Professional team-based project that incorporates training, feedback on project proposals, possible field work, engagement with client organizations, data gathering and analysis, and a major deliverable such as a policy report. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 12:30 p.m.
PPGA_V 591-B_001	PPGA_V	591	B	B_001	Special Topics in Public Policy	W1	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
PPGA_V 591-C_001	PPGA_V	591	C	C_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:30 p.m. - 5:30 p.m.
PPGA_V 591-E_001	PPGA_V	591	E	E_001	Special Topics in Public Policy	W1	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
PPGA_V 591-M_001	PPGA_V	591	M	M_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.

PPGA_V 591-O_001	PPGA_V	591	O	O_001	Special Topics in Public Policy	W1	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
PPGA_V 591-R_001	PPGA_V	591	R	R_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 591-S_001	PPGA_V	591	S	S_001	Special Topics in Public Policy	W1	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 591-T_001	PPGA_V	591	T	T_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 591-U_001	PPGA_V	591	U	U_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PPGA_V 591-V_001	PPGA_V	591	V	V_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:30 a.m. - 12:30 p.m.
PPGA_V 591-W_001	PPGA_V	591	W	W_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
PPGA_V 591-X_001	PPGA_V	591	X	X_001	Special Topics in Public Policy	W1	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
PPGA_V 591-Y_001	PPGA_V	591	Y	Y_001	Special Topics in Public Policy	W1	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PPGA_V 591-Z_001	PPGA_V	591	Z	Z_001	Special Topics in Public Policy	W2	Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
PPGA_V 592-A_001	PPGA_V	592	A	A_001	Professional Skills in Public Policy and Global Affairs	W2	Topics will vary from year to year. Offerings will respond to evolving skills required for working in the field of public policy and global affairs. Restricted to students in the MPPGA program.	Online Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 100-001	PSYC_V	100		001	Introductory Psychology	W1-2	Introduction to methods and statistics, biopsychology, learning, perception, memory, cognition, motivation, assessment, developmental, personality, clinical, and social psychology. Credit will be granted for only one of PSYC 100 or PSYC 101 and 102.	In Person Learning	Arranged	Arranged
PSYC_V 101-001	PSYC_V	101		001	Introduction to Biological and Cognitive Psychology	W1	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 101-002	PSYC_V	101		002	Introduction to Biological and Cognitive Psychology	W1	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Arranged	Arranged
PSYC_V 101-003	PSYC_V	101		003	Introduction to Biological and Cognitive Psychology	W1	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PSYC_V 101-004	PSYC_V	101		004	Introduction to Biological and Cognitive Psychology	W1	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 101-005	PSYC_V	101		005	Introduction to Biological and Cognitive Psychology	W1	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 101-006	PSYC_V	101		006	Introduction to Biological and Cognitive Psychology	W1	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PSYC_V 101-007	PSYC_V	101		007	Introduction to Biological and Cognitive Psychology	W2	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 101-008	PSYC_V	101		008	Introduction to Biological and Cognitive Psychology	W2	Introduction to Methods and Statistics, Biopsychology, Learning, Perception, Memory, and Cognition. Credit will be granted for only one of PSYC 100 and PSYC 101.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.



PSYC_V 208-991	PSYC_V	208	991	Contemporary Topics in Social, Developmental, Personality, and Clinical Psychology	W1	A focus on the interpretation of contemporary research in social, developmental, personality, and clinical psychology.	Online Learning	Arranged	Arranged
PSYC_V 208-992	PSYC_V	208	992	Contemporary Topics in Social, Developmental, Personality, and Clinical Psychology	W2	A focus on the interpretation of contemporary research in social, developmental, personality, and clinical psychology.	Online Learning	Arranged	Arranged
PSYC_V 216-002	PSYC_V	216	002	Questioning Psychological Science in the Media	W1	Use basic principles of quantitative psychological research methods to critique psychological claims presented in the media and to translate psychological science to everyday life. Intended for non-psychology majors to prepare for upper level courses. Majors should take PSYC 217 instead.	In Person Learning	Arranged	Arranged
PSYC_V 216-005	PSYC_V	216	005	Questioning Psychological Science in the Media	W2	Use basic principles of quantitative psychological research methods to critique psychological claims presented in the media and to translate psychological science to everyday life. Intended for non-psychology majors to prepare for upper level courses. Majors should take PSYC 217 instead.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 216-006	PSYC_V	216	006	Questioning Psychological Science in the Media	W2	Use basic principles of quantitative psychological research methods to critique psychological claims presented in the media and to translate psychological science to everyday life. Intended for non-psychology majors to prepare for upper level courses. Majors should take PSYC 217 instead.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 216-007	PSYC_V	216	007	Questioning Psychological Science in the Media	W2	Use basic principles of quantitative psychological research methods to critique psychological claims presented in the media and to translate psychological science to everyday life. Intended for non-psychology majors to prepare for upper level courses. Majors should take PSYC 217 instead.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 216-101	PSYC_V	216	101	Questioning Psychological Science in the Media	W1	Use basic principles of quantitative psychological research methods to critique psychological claims presented in the media and to translate psychological science to everyday life. Intended for non-psychology majors to prepare for upper level courses. Majors should take PSYC 217 instead.	In Person Learning	Arranged	Arranged
PSYC_V 217-001	PSYC_V	217	001	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
PSYC_V 217-002	PSYC_V	217	002	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PSYC_V 217-003	PSYC_V	217	003	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PSYC_V 217-004	PSYC_V	217	004	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PSYC_V 217-005	PSYC_V	217	005	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 217-006	PSYC_V	217	006	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 217-007	PSYC_V	217	007	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 217-008	PSYC_V	217	008	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 217-009	PSYC_V	217	009	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Fri	11:00 a.m. - 2:00 p.m.
PSYC_V 217-010	PSYC_V	217	010	Research Methods	W1	Focus on various research methods used in psychology, with an emphasis on critical thinking and experimental design. Credit will be granted for only one of PSYC 217 or PSYC 277. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Corequisite: Either(a) PSYC 100 or (b) all of PSYC 101, PSYC 102.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 217-901	PSYC_V	217	901	Research Methods	W1	Use of inferential statistics in psychology and conceptual interpretation of data; experimental design (laboratory, field research methods); presentation of data analyses in reports. Credit will be granted for only one of: PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 217, PSYC 277.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
PSYC_V 218-001	PSYC_V	218	001	Analysis of Behavioural Data	W2	Use of inferential statistics in psychology and conceptual interpretation of data; experimental design (laboratory, field research methods); presentation of data analyses in reports. Credit will be granted for only one of: PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of PSYC Major, BA COGS Major. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 217, PSYC 277.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.



PSYC_V 278-L01	PSYC_V	278	L01	Analysis of Behavioural and Neuroscientific Data	W2	Statistical methods for use in the neurosciences. Credit will be granted for only one of: PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of NSCI Major, BSc COGS Major (Cognition and Brain stream). This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 217, PSYC 277.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
PSYC_V 278-L02	PSYC_V	278	L02	Analysis of Behavioural and Neuroscientific Data	W2	Statistical methods for use in the neurosciences. Credit will be granted for only one of: PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of NSCI Major, BSc COGS Major (Cognition and Brain stream). This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 217, PSYC 277.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
PSYC_V 278-L03	PSYC_V	278	L03	Analysis of Behavioural and Neuroscientific Data	W2	Statistical methods for use in the neurosciences. Credit will be granted for only one of: PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of NSCI Major, BSc COGS Major (Cognition and Brain stream). This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 217, PSYC 277.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
PSYC_V 278-L04	PSYC_V	278	L04	Analysis of Behavioural and Neuroscientific Data	W2	Statistical methods for use in the neurosciences. Credit will be granted for only one of: PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of NSCI Major, BSc COGS Major (Cognition and Brain stream). This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 217, PSYC 277.	In Person Learning	Fri	3:00 p.m. - 5:00 p.m.
PSYC_V 300-001	PSYC_V	300	001	Abnormal Psychology	W1	The definition, history, and scope of abnormal behaviour; emphasis on the psychological factors that control its origins, maintenance, and modification. Restricted to students with second-year standing or higher. Strongly recommended: PSYC 101, 102, and one of PSYC 216, 217, or 227.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 300-003	PSYC_V	300	003	Abnormal Psychology	W2	The definition, history, and scope of abnormal behaviour; emphasis on the psychological factors that control its origins, maintenance, and modification. Restricted to students with second-year standing or higher. Strongly recommended: PSYC 101, 102, and one of PSYC 216, 217, or 227.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
PSYC_V 300-004	PSYC_V	300	004	Abnormal Psychology	W2	The definition, history, and scope of abnormal behaviour; emphasis on the psychological factors that control its origins, maintenance, and modification. Restricted to students with second-year standing or higher. Strongly recommended: PSYC 101, 102, and one of PSYC 216, 217, or 227.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 300-005	PSYC_V	300	005	Abnormal Psychology	W2	The definition, history, and scope of abnormal behaviour; emphasis on the psychological factors that control its origins, maintenance, and modification. Restricted to students with second-year standing or higher. Strongly recommended: PSYC 101, 102, and one of PSYC 216, 217, or 227.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 300-901	PSYC_V	300	901	Abnormal Psychology	W1	The definition, history, and scope of abnormal behaviour; emphasis on the psychological factors that control its origins, maintenance, and modification. Restricted to students with second-year standing or higher. Strongly recommended: PSYC 101, 102, and one of PSYC 216, 217, or 227.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
PSYC_V 300-991	PSYC_V	300	991	Abnormal Psychology	W1	The definition, history, and scope of abnormal behaviour; emphasis on the psychological factors that control its origins, maintenance, and modification. Restricted to students with second-year standing or higher. Strongly recommended: PSYC 101, 102, and one of PSYC 216, 217, or 227.	Online Learning	Arranged	Arranged
PSYC_V 300-992	PSYC_V	300	992	Abnormal Psychology	W2	The definition, history, and scope of abnormal behaviour; emphasis on the psychological factors that control its origins, maintenance, and modification. Restricted to students with second-year standing or higher. Strongly recommended: PSYC 101, 102, and one of PSYC 216, 217, or 227.	Online Learning	Arranged	Arranged
PSYC_V 301-001	PSYC_V	301	001	Brain Dysfunction and Recovery	W1	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 301-002	PSYC_V	301	002	Brain Dysfunction and Recovery	W1	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PSYC_V 301-003	PSYC_V	301	003	Brain Dysfunction and Recovery	W2	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 301-004	PSYC_V	301	004	Brain Dysfunction and Recovery	W2	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 301-005	PSYC_V	301	005	Brain Dysfunction and Recovery	W2	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 301-901	PSYC_V	301	901	Brain Dysfunction and Recovery	W1	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Thu	5:30 p.m. - 8:00 p.m.
PSYC_V 301-902	PSYC_V	301	902	Brain Dysfunction and Recovery	W2	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Thu	5:00 p.m. - 7:30 p.m.
PSYC_V 301-991	PSYC_V	301	991	Brain Dysfunction and Recovery	W1	Cognitive and behavioral impairments resulting from brain dysfunction. Focus on the efficacy of various intervention approaches. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 302-001	PSYC_V	302	001	Infancy	W1	Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 302-002	PSYC_V	302	002	Infancy	W1	Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged

PSYC_V 302-003	PSYC_V	302	003	Infancy	W1	Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 302-004	PSYC_V	302	004	Infancy	W2	Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 302-005	PSYC_V	302	005	Infancy	W2	Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 302-901	PSYC_V	302	901	Infancy	W1	Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
PSYC_V 302-992	PSYC_V	302	992	Infancy	W2	Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 303-001	PSYC_V	303	001	Tests and Measurements	W1	Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 303-003	PSYC_V	303	003	Tests and Measurements	W2	Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 303-004	PSYC_V	303	004	Tests and Measurements	W2	Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 303-101	PSYC_V	303	101	Tests and Measurements	W1	Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PSYC_V 303-102	PSYC_V	303	102	Tests and Measurements	W1	Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PSYC_V 303-901	PSYC_V	303	901	Tests and Measurements	W1	Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
PSYC_V 303-902	PSYC_V	303	902	Tests and Measurements	W2	Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
PSYC_V 304-B_001	PSYC_V	304	B_001	Brain and Behaviour	W1-2	The neurobiological bases of behaviour; brain processes involved in perception, motivation, emotion, psychopathology, learning and memory. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371. Strongly recommended: PSYC 101 and one of PSYC 216, PSYC 217, PSYC 277. Restricted to all Arts and Science students with second-year standing or higher, excluding those in the B.Sc. Behavioural Neuroscience or B.Sc. Neuroscience specializations.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 304-B_901	PSYC_V	304	B_901	Brain and Behaviour	W1-2	The neurobiological bases of behaviour; brain processes involved in perception, motivation, emotion, psychopathology, learning and memory. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371. Strongly recommended: PSYC 101 and one of PSYC 216, PSYC 217, PSYC 277. Restricted to all Arts and Science students with second-year standing or higher, excluding those in the B.Sc. Behavioural Neuroscience or B.Sc. Neuroscience specializations.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
PSYC_V 304-B_991	PSYC_V	304	B_991	Brain and Behaviour	W1-2	The neurobiological bases of behaviour; brain processes involved in perception, motivation, emotion, psychopathology, learning and memory. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371. Strongly recommended: PSYC 101 and one of PSYC 216, PSYC 217, PSYC 277. Restricted to all Arts and Science students with second-year standing or higher, excluding those in the B.Sc. Behavioural Neuroscience or B.Sc. Neuroscience specializations.	Online Learning	Arranged	Arranged
PSYC_V 305-001	PSYC_V	305	001	Personality Psychology	W1	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 305-002	PSYC_V	305	002	Personality Psychology	W1	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 305-003	PSYC_V	305	003	Personality Psychology	W2	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 305-004	PSYC_V	305	004	Personality Psychology	W2	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 305-005	PSYC_V	305	005	Personality Psychology	W2	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 305-006	PSYC_V	305	006	Personality Psychology	W2	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

PSYC_V 305-007	PSYC_V	305	007	Personality Psychology	W2	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 305-901	PSYC_V	305	901	Personality Psychology	W1	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue	5:00 p.m. - 7:30 p.m.
PSYC_V 305-902	PSYC_V	305	902	Personality Psychology	W2	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue	5:00 p.m. - 7:30 p.m.
PSYC_V 305-991	PSYC_V	305	991	Personality Psychology	W1	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 305-992	PSYC_V	305	992	Personality Psychology	W2	Theory and research on individual differences in motivation, emotion, and social behaviour. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 306-001	PSYC_V	306	001	Principles of Animal Behaviour	W1	Behavioural neuroscience; behavioural genetics; social systems; mating and parental strategies; instinct and learning; evolution of human behaviour. Credit will be given for only one of BIOL 310 or PSYC 306. Strongly recommended: PSYC 101, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 306-002	PSYC_V	306	002	Principles of Animal Behaviour	W1	Behavioural neuroscience; behavioural genetics; social systems; mating and parental strategies; instinct and learning; evolution of human behaviour. Credit will be given for only one of BIOL 310 or PSYC 306. Strongly recommended: PSYC 101, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 307-002	PSYC_V	307	002	Cultural Psychology	W1	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 307-005	PSYC_V	307	005	Cultural Psychology	W2	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 307-101	PSYC_V	307	101	Cultural Psychology	W1	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PSYC_V 307-102	PSYC_V	307	102	Cultural Psychology	W1	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PSYC_V 307-103	PSYC_V	307	103	Cultural Psychology	W2	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 307-104	PSYC_V	307	104	Cultural Psychology	W2	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 307-991	PSYC_V	307	991	Cultural Psychology	W1	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 307-992	PSYC_V	307	992	Cultural Psychology	W2	Cultural influences on human thought and behaviour; interactions of culture and self; multicultural experiences; intercultural relations; methodological issues. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 308-001	PSYC_V	308	001	Social Psychology	W1	Theory and research of individual social behaviour; social motivation; attitudes; group interaction; socialization; prejudice. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 308-002	PSYC_V	308	002	Social Psychology	W1	Theory and research of individual social behaviour; social motivation; attitudes; group interaction; socialization; prejudice. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 308-003	PSYC_V	308	003	Social Psychology	W2	Theory and research of individual social behaviour; social motivation; attitudes; group interaction; socialization; prejudice. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 308-004	PSYC_V	308	004	Social Psychology	W2	Theory and research of individual social behaviour; social motivation; attitudes; group interaction; socialization; prejudice. Strongly recommended: PSYC 102, and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 309-001	PSYC_V	309	001	Cognitive Processes	W1	Contribution of cognitive processes to perception, attention, and memory; cognitive development, language, thinking, and creativity. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 309-002	PSYC_V	309	002	Cognitive Processes	W2	Contribution of cognitive processes to perception, attention, and memory; cognitive development, language, thinking, and creativity. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 309-003	PSYC_V	309	003	Cognitive Processes	W2	Contribution of cognitive processes to perception, attention, and memory; cognitive development, language, thinking, and creativity. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 311-001	PSYC_V	311	001	Psychology of Sport	W1	Psychological theory, research, and skills training related to sport performance, exercise motivation, and adherence. Credit will be granted for only one of PSYC 311 and KIN 150 and 231. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged

PSYC_V 311-004	PSYC_V	311	004	Psychology of Sport	W2	Psychological theory, research, and skills training related to sport performance, exercise motivation, and adherence. Credit will be granted for only one of PSYC 311 and KIN 150 and 231. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 311-005	PSYC_V	311	005	Psychology of Sport	W2	Psychological theory, research, and skills training related to sport performance, exercise motivation, and adherence. Credit will be granted for only one of PSYC 311 and KIN 150 and 231. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 311-901	PSYC_V	311	901	Psychology of Sport	W1	Psychological theory, research, and skills training related to sport performance, exercise motivation, and adherence. Credit will be granted for only one of PSYC 311 and KIN 150 and 231. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Wed	6:00 p.m. - 8:30 p.m.
PSYC_V 311-902	PSYC_V	311	902	Psychology of Sport	W2	Psychological theory, research, and skills training related to sport performance, exercise motivation, and adherence. Credit will be granted for only one of PSYC 311 and KIN 150 and 231. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Wed	6:00 p.m. - 8:30 p.m.
PSYC_V 314-001	PSYC_V	314	001	Health Psychology	W1	Health-related behaviours such as smoking and drug use; effects of stressful events on health; methods for coping with stress; impact of chronic illness on the family; social support systems. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 314-002	PSYC_V	314	002	Health Psychology	W1	Health-related behaviours such as smoking and drug use; effects of stressful events on health; methods for coping with stress; impact of chronic illness on the family; social support systems. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 314-003	PSYC_V	314	003	Health Psychology	W2	Health-related behaviours such as smoking and drug use; effects of stressful events on health; methods for coping with stress; impact of chronic illness on the family; social support systems. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 314-004	PSYC_V	314	004	Health Psychology	W2	Health-related behaviours such as smoking and drug use; effects of stressful events on health; methods for coping with stress; impact of chronic illness on the family; social support systems. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 314-005	PSYC_V	314	005	Health Psychology	W1	Health-related behaviours such as smoking and drug use; effects of stressful events on health; methods for coping with stress; impact of chronic illness on the family; social support systems. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.
PSYC_V 314-991	PSYC_V	314	991	Health Psychology	W1	Health-related behaviours such as smoking and drug use; effects of stressful events on health; methods for coping with stress; impact of chronic illness on the family; social support systems. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 314-992	PSYC_V	314	992	Health Psychology	W2	Health-related behaviours such as smoking and drug use; effects of stressful events on health; methods for coping with stress; impact of chronic illness on the family; social support systems. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 315-001	PSYC_V	315	001	Childhood and Adolescence	W1	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
PSYC_V 315-002	PSYC_V	315	002	Childhood and Adolescence	W1	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PSYC_V 315-004	PSYC_V	315	004	Childhood and Adolescence	W2	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PSYC_V 315-005	PSYC_V	315	005	Childhood and Adolescence	W2	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PSYC_V 315-101	PSYC_V	315	101	Childhood and Adolescence	W1	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PSYC_V 315-102	PSYC_V	315	102	Childhood and Adolescence	W1	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 315-991	PSYC_V	315	991	Childhood and Adolescence	W1	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 315-992	PSYC_V	315	992	Childhood and Adolescence	W2	Human development from the preschool period through adolescence. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 319-002	PSYC_V	319	002	Applied Developmental Psychology	W1	Applications of theories and research in developmental psychology to contemporary social issues; topics may include daycare, child abuse, divorce and remarriage, substance abuse, sexuality. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PSYC_V 319-003	PSYC_V	319	003	Applied Developmental Psychology	W1	Applications of theories and research in developmental psychology to contemporary social issues; topics may include daycare, child abuse, divorce and remarriage, substance abuse, sexuality. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PSYC_V 319-004	PSYC_V	319	004	Applied Developmental Psychology	W2	Applications of theories and research in developmental psychology to contemporary social issues; topics may include daycare, child abuse, divorce and remarriage, substance abuse, sexuality. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
PSYC_V 319-101	PSYC_V	319	101	Applied Developmental Psychology	W2	Applications of theories and research in developmental psychology to contemporary social issues; topics may include daycare, child abuse, divorce and remarriage, substance abuse, sexuality. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.

PSYC_V 319-102	PSYC_V	319	102	Applied Developmental Psychology	W2	Applications of theories and research in developmental psychology to contemporary social issues; topics may include daycare, child abuse, divorce and remarriage, substance abuse, sexuality. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PSYC_V 320-991	PSYC_V	320	991	Psychology of Sex Differences	W1	Theory and research on gender development and the influence of sex and/or gender on cognition, emotion, motivation, social behaviour, and health. Strongly recommended: PSYC 101, 102 and PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 320-992	PSYC_V	320	992	Psychology of Sex Differences	W2	Theory and research on gender development and the influence of sex and/or gender on cognition, emotion, motivation, social behaviour, and health. Strongly recommended: PSYC 101, 102 and PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Online Learning	Arranged	Arranged
PSYC_V 322-001	PSYC_V	322	001	Adulthood and Aging	W1	Issues, theories, and psychological research regarding adulthood and the aging process. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 322-003	PSYC_V	322	003	Adulthood and Aging	W1	Issues, theories, and psychological research regarding adulthood and the aging process. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 322-004	PSYC_V	322	004	Adulthood and Aging	W2	Issues, theories, and psychological research regarding adulthood and the aging process. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PSYC_V 322-005	PSYC_V	322	005	Adulthood and Aging	W2	Issues, theories, and psychological research regarding adulthood and the aging process. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 322-006	PSYC_V	322	006	Adulthood and Aging	W2	Issues, theories, and psychological research regarding adulthood and the aging process. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
PSYC_V 325-001	PSYC_V	325	001	Socialization: Media Content and Effects	W1	Examines human development in the context of the socializing role of media. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 325-002	PSYC_V	325	002	Socialization: Media Content and Effects	W1	Examines human development in the context of the socializing role of media. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 325-003	PSYC_V	325	003	Socialization: Media Content and Effects	W2	Examines human development in the context of the socializing role of media. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 325-103	PSYC_V	325	103	Socialization: Media Content and Effects	W1	Examines human development in the context of the socializing role of media. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 331-001	PSYC_V	331	001	Forensic Psychology	W1	The application of psychological theory and research to legal issues and the criminal justice system. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
PSYC_V 331-002	PSYC_V	331	002	Forensic Psychology	W1	The application of psychological theory and research to legal issues and the criminal justice system. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
PSYC_V 333-001	PSYC_V	333	001	Memory: Historical, Clinical and Cognitive Perspectives	W1	Classical and contemporary metaphors for memory and their impact on theory development. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 333-002	PSYC_V	333	002	Memory: Historical, Clinical and Cognitive Perspectives	W1	Classical and contemporary metaphors for memory and their impact on theory development. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
PSYC_V 333-003	PSYC_V	333	003	Memory: Historical, Clinical and Cognitive Perspectives	W2	Classical and contemporary metaphors for memory and their impact on theory development. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 333-004	PSYC_V	333	004	Memory: Historical, Clinical and Cognitive Perspectives	W2	Classical and contemporary metaphors for memory and their impact on theory development. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 333-991	PSYC_V	333	991	Memory: Historical, Clinical and Cognitive Perspectives	W2	Classical and contemporary metaphors for memory and their impact on theory development. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 335-001	PSYC_V	335	001	Gambling and Decision Making	W1	The psychology of gambling behaviour, with emphasis on relevant work from judgment and decision-making, the cognitive neuroscience of choice, and clinical perspectives on disordered gambling. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PSYC_V 336-001	PSYC_V	336	001	The Psychology of Language I	W2	Psychological abilities underlying human language; language processing, lexical representation, and principles of online conversation; animal versus human communication. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
PSYC_V 336-101	PSYC_V	336	101	The Psychology of Language I	W2	Psychological abilities underlying human language; language processing, lexical representation, and principles of online conversation; animal versus human communication. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 336-901	PSYC_V	336	901	The Psychology of Language I	W2	Psychological abilities underlying human language; language processing, lexical representation, and principles of online conversation; animal versus human communication. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.

PSYC_V 340-B_002	PSYC_V	340	B	B_002	Directed Studies in Psychology	W1	Directed investigation of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 340-C_003	PSYC_V	340	C	C_003	Directed Studies in Psychology	W2	Directed investigation of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 340-E_001	PSYC_V	340	E	E_001	Directed Studies in Psychology	W1-2	Directed investigation of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 340-E_003	PSYC_V	340	E	E_003	Directed Studies in Psychology	W1-2	Directed investigation of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems with second-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 349-001	PSYC_V	349		001	Honours Seminar	W1-2	Orientation to psychological research, with special emphasis on ongoing research within the department; effective presentation of research findings, oral and written; critical evaluation of research. Requires a research project. Restricted to students in Honours Psychology. Prerequisite: All of PSYC 217, PSYC 218.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
PSYC_V 349-002	PSYC_V	349		002	Honours Seminar	W1-2	Orientation to psychological research, with special emphasis on ongoing research within the department; effective presentation of research findings, oral and written; critical evaluation of research. Requires a research project. Restricted to students in Honours Psychology. Prerequisite: All of PSYC 217, PSYC 218.	In Person Learning	Arranged	Arranged
PSYC_V 350-001	PSYC_V	350		001	Psychological Aspects of Human Sexuality	W1	Human sexuality from a biopsychological, behavioural, and psychosocial perspective. Strongly recommended: PSYC 101, 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 350-002	PSYC_V	350		002	Psychological Aspects of Human Sexuality	W1	Human sexuality from a biopsychological, behavioural, and psychosocial perspective. Strongly recommended: PSYC 101, 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 350-901	PSYC_V	350		901	Psychological Aspects of Human Sexuality	W1	Human sexuality from a biopsychological, behavioural, and psychosocial perspective. Strongly recommended: PSYC 101, 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Hybrid Learning	Tue	5:00 p.m. - 7:30 p.m.
PSYC_V 350-902	PSYC_V	350		902	Psychological Aspects of Human Sexuality	W2	Human sexuality from a biopsychological, behavioural, and psychosocial perspective. Strongly recommended: PSYC 101, 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	Hybrid Learning	Tue	5:00 p.m. - 7:30 p.m.
PSYC_V 358-001	PSYC_V	358		001	Evolutionary Psychology	W1	Theory and research on the evolution of the human mind, with emphasis on implications for cognition and behaviour in contemporary environments. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 358-002	PSYC_V	358		002	Evolutionary Psychology	W1	Theory and research on the evolution of the human mind, with emphasis on implications for cognition and behaviour in contemporary environments. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
PSYC_V 358-003	PSYC_V	358		003	Evolutionary Psychology	W1	Theory and research on the evolution of the human mind, with emphasis on implications for cognition and behaviour in contemporary environments. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 358-004	PSYC_V	358		004	Evolutionary Psychology	W1	Theory and research on the evolution of the human mind, with emphasis on implications for cognition and behaviour in contemporary environments. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 358-901	PSYC_V	358		901	Evolutionary Psychology	W1	Theory and research on the evolution of the human mind, with emphasis on implications for cognition and behaviour in contemporary environments. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue	5:00 p.m. - 7:30 p.m.
PSYC_V 358-902	PSYC_V	358		902	Evolutionary Psychology	W2	Theory and research on the evolution of the human mind, with emphasis on implications for cognition and behaviour in contemporary environments. Strongly recommended: PSYC 102 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.	In Person Learning	Tue	5:00 p.m. - 7:30 p.m.
PSYC_V 359-001	PSYC_V	359		001	Advanced Research Methods in Behavioural Sciences	W1	Prepares students for graduate studies or other advanced behavioural research; experimental design and analytic techniques; laboratory with computer applications. Restricted to students with second-year standing or higher and a cumulative average at or above 76%. Prerequisite: One of PSYC 218, PSYC 278.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 361-001	PSYC_V	361		001	Neuroscience of Motivation	W1	Experimental analysis of hunger, thirst, exploratory and curiosity behaviour, maternal and reproductive behaviour, fixed action patterns, and complex processes involved in social motivation with emphasis on the biological basis of motivation. Restricted to students with second-year standing or higher. Prerequisite: One of NSCI 201, PSYC 270, PSYC 304, PSYC 370.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
PSYC_V 363-001	PSYC_V	363		001	Neuroscience of Simple Learning	W1	Introduction to basic theories of non-associative learning, classical and operant conditioning. Experimental findings from behavioural and biological analyses with animals and humans. Restricted to students with second-year standing or higher. Prerequisite: One of BIOL 260, BIOL 361, BIOL 455, BIOL 458, CAPS 301, NSCI 200, PSYC 270, PSYC 304.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
PSYC_V 363-002	PSYC_V	363		002	Neuroscience of Simple Learning	W1	Introduction to basic theories of non-associative learning, classical and operant conditioning. Experimental findings from behavioural and biological analyses with animals and humans. Restricted to students with second-year standing or higher. Prerequisite: One of BIOL 260, BIOL 361, BIOL 455, BIOL 458, CAPS 301, NSCI 200, PSYC 270, PSYC 304. Current research into human brain systems underlying cognitive processes such as perception, attention, memory, and decision-making. Restricted to students with second-year standing or higher. Prerequisite: Either (a) one of PSYC 101, PSYC 304, PSYC 309, NSCI 201, PSYC 270 or (b) COGS 200.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
PSYC_V 365-001	PSYC_V	365		001	Cognitive Neuroscience	W2	Introduction to basic theories of non-associative learning, classical and operant conditioning. Experimental findings from behavioural and biological analyses with animals and humans. Restricted to students with second-year standing or higher. Prerequisite: One of BIOL 260, BIOL 361, BIOL 455, BIOL 458, CAPS 301, NSCI 200, PSYC 270, PSYC 304. Current research into human brain systems underlying cognitive processes such as perception, attention, memory, and decision-making. Restricted to students with second-year standing or higher. Prerequisite: Either (a) one of PSYC 101, PSYC 304, PSYC 309, NSCI 201, PSYC 270 or (b) COGS 200.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.

PSYC_V 365-002	PSYC_V	365	002	Cognitive Neuroscience	W2	Current research into human brain systems underlying cognitive processes such as perception, attention, memory, and decision-making. Restricted to students with second-year standing or higher. Prerequisite: Either (a) one of PSYC 101, PSYC 304, PSYC 309, NSCI 201, PSYC 270 or (b) COGS 200.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
PSYC_V 367-001	PSYC_V	367	001	Sensory Systems	W1	Anatomy and physiology of the sensory pathways and their relation to perception. Credit will be granted for only one of PSYC 367, BIOL 372. Restricted to students with second-year standing or higher. Prerequisite: Either (a) one of PSYC 101, NSCI 201 or (b) COGS 200.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
PSYC_V 368-001	PSYC_V	368	001	Perceptual Processing	W2	Perceptual phenomena and their underlying brain mechanisms. Prerequisite: [PSYC367]	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
PSYC_V 370-001	PSYC_V	370	001	Behavioural and Cognitive Neuroscience I	W1	Advanced methods and topics in behavioural and cognitive neuroscience. Credit will be granted for only one of PSYC 304, PSYC 370, BIOL 371, BIOL 372. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher. Prerequisite: One of NSCI 201, PSYC 270, COGS 200 and one of PSYC 217, PSYC 277 and one of PSYC 218, PSYC 278.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
PSYC_V 371-002	PSYC_V	371	002	Behavioural and Cognitive Neuroscience II	W2	Neurodevelopment and neuroplasticity, the physiological bases of several motivated behaviours (sleep, sexual behaviour, hunger and eating, drugs and addiction), cognition, the stress response, and brain dysfunction and recovery. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher. Prerequisite: PSYC 370.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
PSYC_V 388-B_002	PSYC_V	388	B	B_002	Directed Studies in Behavioural Neuroscience	W1	Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with second-year standing or higher. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 388-C_003	PSYC_V	388	C	C_003	Directed Studies in Behavioural Neuroscience	W2	Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with second-year standing or higher. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 388-E_001	PSYC_V	388	E	E_001	Directed Studies in Behavioural Neuroscience	W1-2	Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with second-year standing or higher. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 398-510	PSYC_V	398	510	Cooperative Work Placement I	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Summer Session after third year. Work term report required. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: Co-op Workshops.	In Person Learning	Arranged	Arranged	
PSYC_V 398-610	PSYC_V	398	610	Cooperative Work Placement I	W1-2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in Summer Session after third year. Work term report required. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: Co-op Workshops.	In Person Learning	Arranged	Arranged	
PSYC_V 399-510	PSYC_V	399	510	Cooperative Work Placement II	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in fourth year Winter Session, Term 1. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 398.	In Person Learning	Arranged	Arranged	
PSYC_V 399-610	PSYC_V	399	610	Cooperative Work Placement II	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in fourth year Winter Session, Term 1. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 398.	In Person Learning	Arranged	Arranged	
PSYC_V 401-001	PSYC_V	401	001	Clinical Psychology	W2	Theoretical and research foundations of the processes of assessment and behaviour modification in clinical psychology. Credit will be granted for only one of PSYC 400 or PSYC 401. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and PSYC 300.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.	
PSYC_V 401-002	PSYC_V	401	002	Clinical Psychology	W2	Theoretical and research foundations of the processes of assessment and behaviour modification in clinical psychology. Credit will be granted for only one of PSYC 400 or PSYC 401. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and PSYC 300.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.	
PSYC_V 401-901	PSYC_V	401	901	Clinical Psychology	W2	Theoretical and research foundations of the processes of assessment and behaviour modification in clinical psychology. Credit will be granted for only one of PSYC 400 or PSYC 401. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and PSYC 300.	In Person Learning	Mon	4:00 p.m. - 7:00 p.m.	
PSYC_V 401-902	PSYC_V	401	902	Clinical Psychology	W2	Theoretical and research foundations of the processes of assessment and behaviour modification in clinical psychology. Credit will be granted for only one of PSYC 400 or PSYC 401. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and PSYC 300.	In Person Learning	Thu	5:00 p.m. - 7:30 p.m.	
PSYC_V 404-001	PSYC_V	404	001	Psychology of Religion	W1	Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion's role in morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
PSYC_V 404-002	PSYC_V	404	002	Psychology of Religion	W1	Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion's role in morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
PSYC_V 404-003	PSYC_V	404	003	Psychology of Religion	W2	Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion's role in morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358.	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.	

PSYC_V 404-004	PSYC_V	404	004	Psychology of Religion	W2	Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion's role in morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.	
PSYC_V 409-001	PSYC_V	409	001	Cognitive Neuropsychology	W1	The structure of the mind as revealed by brain injury, neurological illness, and surgical intervention. Topics include attention, memory, language, sense of self, topographic awareness, moral reasoning, emotion, theory of mind, and social awareness. Restricted to students with third-year standing or higher. Prerequisite: Either (a) one of PSYC 304, PSYC 309, NSCI 201, PSYC 270 or (b) COGS 200.	In Person Learning	Tue Thu	1:00 p.m. - 2:00 p.m.	
PSYC_V 409-002	PSYC_V	409	002	Cognitive Neuropsychology	W2	The structure of the mind as revealed by brain injury, neurological illness, and surgical intervention. Topics include attention, memory, language, sense of self, topographic awareness, moral reasoning, emotion, theory of mind, and social awareness. Restricted to students with third-year standing or higher. Prerequisite: Either (a) one of PSYC 304, PSYC 309, NSCI 201, PSYC 270 or (b) COGS 200.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
PSYC_V 413-001	PSYC_V	413	001	Social and Personality Development	W2	Comprehensive overview of the psychological processes in the social and personality development of infants, children, and adolescents. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.	
PSYC_V 413-991	PSYC_V	413	991	Social and Personality Development	W1	Comprehensive overview of the psychological processes in the social and personality development of infants, children, and adolescents. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325.	Online Learning	Arranged	Arranged	
PSYC_V 413-992	PSYC_V	413	992	Social and Personality Development	W2	Comprehensive overview of the psychological processes in the social and personality development of infants, children, and adolescents. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325.	Online Learning	Arranged	Arranged	
PSYC_V 421-001	PSYC_V	421	001	Environmental Psychology	W2	Psychological theory and research on the interaction between organisms and the physical environment; emphasis on applications to the design and management of constructed and natural environments. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 300, PSYC 308, PSYC 309, PSYC 314, PSYC 319. Restricted to students with third-year standing or higher.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	
PSYC_V 427-001	PSYC_V	427	001	Advanced Seminar in Psychology	W2	Investigation of an issue, topic, or phenomenon in psychology, focusing on research deeply within a subfield or integrating research across subfields. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 218, PSYC 278. Consult Section Notes or the Psychology Department website for 300-level course(s) recommended for a specific offering.	In Person Learning	Wed	1:30 p.m. - 4:00 p.m.	
PSYC_V 427-002	PSYC_V	427	002	Advanced Seminar in Psychology	W2	Investigation of an issue, topic, or phenomenon in psychology, focusing on research deeply within a subfield or integrating research across subfields. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 218, PSYC 278. Consult Section Notes or the Psychology Department website for 300-level course(s) recommended for a specific offering.	In Person Learning	Wed	3:00 p.m. - 5:30 p.m.	
PSYC_V 440-B_001	PSYC_V	440	B	B_001	Directed Studies in Psychology	W1	Directed investigation of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems, with third-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 440-C_002	PSYC_V	440	C	C_002	Directed Studies in Psychology	W2	Directed investigation of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems, with third-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 440-E_003	PSYC_V	440	E	E_003	Directed Studies in Psychology	W1-2	Directed investigation of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems, with third-year standing or higher.	In Person Learning	Arranged	Arranged
PSYC_V 449-001	PSYC_V	449	001	Honours Seminar and Essay	W1-2	Students carry out a research project and report on its development during seminars. Students also discuss research by Departmental staff, with emphasis on choice of problems, research design and data analysis. Intended for students in their graduating year. Restricted to students in Honours Psychology, in fourth-year standing or higher. Prerequisite: PSYC 349.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.	
PSYC_V 449-002	PSYC_V	449	002	Honours Seminar and Essay	W1-2	Students carry out a research project and report on its development during seminars. Students also discuss research by Departmental staff, with emphasis on choice of problems, research design and data analysis. Intended for students in their graduating year. Restricted to students in Honours Psychology, in fourth-year standing or higher. Prerequisite: PSYC 349.	In Person Learning	Arranged	Arranged	
PSYC_V 460-001	PSYC_V	460	001	Behavioural Neuroendocrinology	W1	Detailed examination of the interaction between hormones and neural control of reproductive and non-reproductive behaviours; emphasis on gonadal and adrenal hormone effects on learning and memory in the brain. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
PSYC_V 460-002	PSYC_V	460	002	Behavioural Neuroendocrinology	W1	Detailed examination of the interaction between hormones and neural control of reproductive and non-reproductive behaviours; emphasis on gonadal and adrenal hormone effects on learning and memory in the brain. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
PSYC_V 460-991	PSYC_V	460	991	Behavioural Neuroendocrinology	W1	Detailed examination of the interaction between hormones and neural control of reproductive and non-reproductive behaviours; emphasis on gonadal and adrenal hormone effects on learning and memory in the brain. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Arranged	Arranged	
PSYC_V 461-001	PSYC_V	461	001	Neuroplasticity and Behaviour	W1	Experimental findings and theory documenting the plasticity of the brain and its relationship to behaviour: emphasis on gene regulation, neurogenesis and cell morphology changes in relation to learning and experience. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.	
PSYC_V 461-002	PSYC_V	461	002	Neuroplasticity and Behaviour	W2	Experimental findings and theory documenting the plasticity of the brain and its relationship to behaviour: emphasis on gene regulation, neurogenesis and cell morphology changes in relation to learning and experience. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.	

PSYC_V 461-101	PSYC_V	461		101	Neuroplasticity and Behaviour	W1	Experimental findings and theory documenting the plasticity of the brain and its relationship to behaviour: emphasis on gene regulation, neurogenesis and cell morphology changes in relation to learning and experience. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
PSYC_V 462-001	PSYC_V	462		001	Drugs and Behavioural Neuroscience	W2	Introduction to neurochemical systems and functional neuroanatomy; animal models of human cognitive processes and mental disorders; neurochemical foundations and treatments for mental disorders. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
PSYC_V 462-002	PSYC_V	462		002	Drugs and Behavioural Neuroscience	W2	Introduction to neurochemical systems and functional neuroanatomy; animal models of human cognitive processes and mental disorders; neurochemical foundations and treatments for mental disorders. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 371.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
PSYC_V 472-001	PSYC_V	472		001	Advanced Neuroscience of Motivation	W2	Neurobiological pathways mediating five core aspects of motivated behaviour: (1) affective decision making; (2) motivated drive; (3) goal-directed vs. habit-based behaviour; (4) learning from negative reinforcers; and (5) disorders of motivation. Restricted to students with third-year standing or higher. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 361, PSYC 365.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
PSYC_V 472-002	PSYC_V	472		002	Advanced Neuroscience of Motivation	W2	Neurobiological pathways mediating five core aspects of motivated behaviour: (1) affective decision making; (2) motivated drive; (3) goal-directed vs. habit-based behaviour; (4) learning from negative reinforcers; and (5) disorders of motivation. Restricted to students with third-year standing or higher. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PSYC 361, PSYC 365.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
PSYC_V 488-B_001	PSYC_V	488	B	B_001	Directed Studies in Behavioural Neuroscience	W1	Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 488-C_002	PSYC_V	488	C	C_002	Directed Studies in Behavioural Neuroscience	W2	Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 488-E_003	PSYC_V	488	E	E_003	Directed Studies in Behavioural Neuroscience	W1-2	Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 498-510	PSYC_V	498		510	Cooperative Work Placement III	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in fourth year Winter Session, Term 2. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 399.	In Person Learning	Arranged	Arranged
PSYC_V 498-610	PSYC_V	498		610	Cooperative Work Placement III	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in fourth year Winter Session, Term 2. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 399.	In Person Learning	Arranged	Arranged
PSYC_V 499-510	PSYC_V	499		510	Cooperative Work Placement IV	W1	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full time. Normally taken in Summer Session after fourth year. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 498.	In Person Learning	Arranged	Arranged
PSYC_V 499-610	PSYC_V	499		610	Cooperative Work Placement IV	W2	Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full time. Normally taken in Summer Session after fourth year. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 498.	In Person Learning	Arranged	Arranged
PSYC_V 503-001	PSYC_V	503		001	Biological Basis of Health Psychology	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 504-C_001	PSYC_V	504	C	C_001	Special Topics in Health Psychology	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 507-001	PSYC_V	507		001	Cultural Psychology	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 507-002	PSYC_V	507		002	Cultural Psychology	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 508-A_001	PSYC_V	508	A	A_001	Teaching of Psychology	W1	Restricted to students in one of PhD PSYC, PhD NRSC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 513-A_001	PSYC_V	513	A	A_001	Special Topics in Developmental Psychology	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 514-001	PSYC_V	514		001	Advanced Topics in Biopsychology	W1	Restricted to students in one of MA PSYC, MSC NRSC, PhD PSYC, PhD NRSC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 517-001	PSYC_V	517		001	Biopsychology of Motivation	W1	Restricted to students in one of MA PSYC, MSC NRSC, PhD PSYC, PhD NRSC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

PSYC_V 520-001	PSYC_V	520	001	Developmental Biopsychology	W2	Restricted to students in one of MA PSYC, MSC NRSC, PhD PSYC, PhD NRSC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 528-001	PSYC_V	528	001	Advanced Methods in Social Psychology and Personality	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 530-001	PSYC_V	530	001	Assessment: A Critical Survey	W1	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 531-001	PSYC_V	531	001	Assessment: Clinical Applications	W2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 532-001	PSYC_V	532	001	Child Assessment	W2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 533-A_001	PSYC_V	533	A	A_001	Current Issues in Clinical Psychology	W1	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_001	PSYC_V	534	B	B_001	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_002	PSYC_V	534	B	B_002	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_003	PSYC_V	534	B	B_003	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_004	PSYC_V	534	B	B_004	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_005	PSYC_V	534	B	B_005	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_006	PSYC_V	534	B	B_006	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_007	PSYC_V	534	B	B_007	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 534-B_008	PSYC_V	534	B	B_008	Clinical Psychology Practicum	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 535-001	PSYC_V	535	001	Psychopathology of the Adult	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 536-001	PSYC_V	536	001	Psychopathology of the Child	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 537-001	PSYC_V	537	001	Ethical and Professional Issues in Clinical Psychology	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 538-001	PSYC_V	538	001	Clinical Neuropsychological Assessment	W2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 541-001	PSYC_V	541	001	Introduction to Psychotherapy	W1	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 542-001	PSYC_V	542	001	Cognitive/Behavioural Interventions	W1	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 545-001	PSYC_V	545	001	Advanced Statistics	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
PSYC_V 546-B_001	PSYC_V	546	B	B_001	Seminar in Quantitative Psychology	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 546-E_001	PSYC_V	546	E	E_001	Seminar in Quantitative Psychology	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

PSYC_V 546-H_001	PSYC_V	546	H	H_001	Seminar in Quantitative Psychology	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 546-J_001	PSYC_V	546	J	J_001	Seminar in Quantitative Psychology	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 546-S_001	PSYC_V	546	S	S_001	Seminar in Quantitative Psychology	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 546-Y_001	PSYC_V	546	Y	Y_001	Seminar in Quantitative Psychology	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 547-E_001	PSYC_V	547	E	E_001	Reading and Conference	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PSYC_V 547-E_002	PSYC_V	547	E	E_002	Reading and Conference	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
PSYC_V 549-001	PSYC_V	549		001	Master's Thesis	W1-2	Restricted to students in MA PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 549-002	PSYC_V	549		002	Master's Thesis	W1	Restricted to students in MA PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 549-003	PSYC_V	549		003	Master's Thesis	W2	Restricted to students in MA PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 556-001	PSYC_V	556		001	Psychological Treatment of Childhood Disorders	W2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 559-A_001	PSYC_V	559	A	A_001	Clinical Psychological Internship	W1-2	Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 560-001	PSYC_V	560		001	Clinical Research Design	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 569-001	PSYC_V	569		001	Contemporary Conceptual Issues in Personality	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 571-A_001	PSYC_V	571	A	A_001	Special Topics in Cognitive Neuroscience	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 571-A_002	PSYC_V	571	A	A_002	Special Topics in Cognitive Neuroscience	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 571-B_001	PSYC_V	571	B	B_001	Special Topics in Cognitive Neuroscience	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 582-A_001	PSYC_V	582	A	A_001	Cognition	W1	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 585-A_001	PSYC_V	585	A	A_001	Special Topics in Developmental Cognitive Neuroscience	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 590-001	PSYC_V	590		001	Survey of Social Psychology I	W2	Restricted to students in one of MA PSYC, PhD PSYC. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYC_V 649-001	PSYC_V	649		001	Doctoral Dissertation	W1-2	Restricted to students in PhD PSYC. Pass/Fail.	In Person Learning	Arranged	Arranged
PSYC_V 649-002	PSYC_V	649		002	Doctoral Dissertation	W1	Restricted to students in PhD PSYC. Pass/Fail.	In Person Learning	Arranged	Arranged
PSYC_V 649-003	PSYC_V	649		003	Doctoral Dissertation	W2	Restricted to students in PhD PSYC. Pass/Fail.	In Person Learning	Arranged	Arranged
PSYT_V 550-A_001	PSYT_V	550	A	A_001	Directed Studies	W1	Reading and study in particular fields of study and research in psychiatry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

PSYT_V 550-A_002	PSYT_V	550	A	A_002	Directed Studies	W2	Reading and study in particular fields of study and research in psychiatry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYT_V 550-B_003	PSYT_V	550	B	B_003	Directed Studies	W1-2	Reading and study in particular fields of study and research in psychiatry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PSYT_V 550-B_006	PSYT_V	550	B	B_006	Directed Studies	W1-2	Reading and study in particular fields of study and research in psychiatry. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
PUNJ_V 102-001	PUNJ_V	102		001	Introductory Punjabi	W1-2	Spoken and written Punjabi. As of 2011W, credit will be granted for only one of PUNJ 100/101 or PUNJ 102. Students who have taken Punjabi 11 in high school cannot take PUNJ 102 for credit.	Hybrid Learning	Mon	10:00 a.m. - 12:00 p.m.
PUNJ_V 102-002	PUNJ_V	102		002	Introductory Punjabi	W1-2	Spoken and written Punjabi. As of 2011W, credit will be granted for only one of PUNJ 100/101 or PUNJ 102. Students who have taken Punjabi 11 in high school cannot take PUNJ 102 for credit.	Hybrid Learning	Mon	2:00 p.m. - 4:00 p.m.
PUNJ_V 200-001	PUNJ_V	200		001	Intermediate Punjabi	W1-2	Study of the grammar and introduction to Punjabi literature. As of 2011W, credit will be granted for only one of PUNJ 201/202 or PUNJ 200. Recommended pre-requisites: one of PUNJ 101, PUNJ 102.	Hybrid Learning	Mon	12:00 p.m. - 2:00 p.m.
PUNJ_V 200-002	PUNJ_V	200		002	Intermediate Punjabi	W1-2	Study of the grammar and introduction to Punjabi literature. As of 2011W, credit will be granted for only one of PUNJ 201/202 or PUNJ 200. Recommended pre-requisites: one of PUNJ 101, PUNJ 102.	Hybrid Learning	Mon	4:00 p.m. - 6:00 p.m.
PUNJ_V 300-001	PUNJ_V	300		001	Advanced Punjabi	W1-2	Advanced grammar and conversation. Major genres of Punjabi literature. As of 2011W, credit will be granted for only one of PUNJ 301/302 or PUNJ 300. Recommended pre-requisites: one of PUNJ 200, PUNJ 202.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
RADS_V 301-001	RADS_V	301		001	Exploring Imaging in the Twenty-First Century	W1	Interdisciplinary course that covers a wide range of topics regarding not only the scientific and technological basis of medical imaging, but also its origins and impact on society and the individual.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
RELG_V 649-001	RELG_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
RELG_V 649-002	RELG_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
RELG_V 649-003	RELG_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
RES_V 500-B_101	RES_V	500	B	B_101	Resource and Environmental Workshop	W1	Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.	In Person Learning	Arranged	Arranged
RES_V 500-B_201	RES_V	500	B	B_201	Resource and Environmental Workshop	W2	Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.	In Person Learning	Arranged	Arranged
RES_V 500-D_101	RES_V	500	D	D_101	Resource and Environmental Workshop	W1	Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
RES_V 500-E_201	RES_V	500	E	E_201	Resource and Environmental Workshop	W2	Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
RES_V 500-H_201	RES_V	500	H	H_201	Resource and Environmental Workshop	W1	Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
RES_V 500-X_101	RES_V	500	X	X_101	Resource and Environmental Workshop	W1	Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
RES_V 502-101	RES_V	502		101	Master's Seminar on Resources and Environment	W1	Environment and resource management goals and issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
RES_V 504-101	RES_V	504		101	Survey Design in Interdisciplinary Environmental Social Science	W1	Survey design focusing on stated and revealed environmental preferences, choices, behaviour and values. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.

RES_V 505-202	RES_V	505	202	Qualitative Methods in Interdisciplinary Contexts	W2	Research design, data quality, analysis, representation, ethics review, structured and unstructured interviews, field observations, survey design. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
RES_V 507-201	RES_V	507	201	Human Technological Systems	W2	Critical analysis of harms and benefits, and anticipation of global technological innovations, as they interact with social behaviour. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
RES_V 508-202	RES_V	508	202	Ecosystem Services	W2	Fostering sustainable management of ecosystem-based activities, for the competing and complementary ends of sustaining and enhancing human well-being and protecting biodiversity. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
RES_V 509-202	RES_V	509	202	Advanced Conservation Science	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: ZOOL 509	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
RES_V 510-101	RES_V	510	101	Social Ecological Systems	W1	Dynamics of environmental issues across temporal and spatial scales using disciplinary and interdisciplinary approaches to integrating sociological, cultural, and ecological perspectives. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
RES_V 520-101	RES_V	520	101	Climate Change: Science, Technology and Sustainable Development	W1	Interdisciplinary science of climate change and its impacts; options for mitigation and adaptation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
RES_V 599-001	RES_V	599	001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
RES_V 599-101	RES_V	599	101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
RES_V 599-201	RES_V	599	201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
RES_V 602-201	RES_V	602	201	Doctoral Seminar on Resources and Environment	W2	Environment and resource management goals and issues. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
RES_V 699-001	RES_V	699	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
RES_V 699-101	RES_V	699	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
RES_V 699-201	RES_V	699	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
RGST_V 160-101	RGST_V	160	101	Introduction to Religions: Judaism, Christianity, Islam	W1	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RGST 160, AMNE 160, or RELG 101. Equivalency: AMNE 160	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
RGST_V 160-201	RGST_V	160	201	Introduction to Religions: Judaism, Christianity, Islam	W2	An overview of the foundational texts, histories, and contemporary expressions of Judaism, Christianity, and Islam. Key concepts and approaches used in the study of religion. Credit will be granted for only one of RGST 160, AMNE 160, or RELG 101. Equivalency: AMNE 160	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
RGST_V 200-101	RGST_V	200	101	Introduction to the Study of Religion	W1	Study of religion through a comparative, cross-cultural, and interdisciplinary approach to humans' engagement with the sacred. Examines religions as complex systems that share certain fundamental common features.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
RGST_V 300-201	RGST_V	300	201	Theory and Method in the Study of Religion	W2	Theories and methods for the critical study of religion as believed and practiced in different times and places. Explores methodologies for studying dimensions of religion such as space, bodily practices, cognition, and material culture.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
RGST_V 400-201	RGST_V	400	201	Advanced Seminar in the Study of Religion	W2	Seminar focused on a special theme in the interdisciplinary study of religion (e.g., religious violence, religion and the secular, religious space). Analysis of the theme's contemporary manifestations and implications, through discussion of recent scholarship, both theoretical and case studies.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
RHSC_V 420-002	RHSC_V	420	002	Elements of Neuroanatomy and Neurophysiology	W2	An introduction to the structure and function of the human nervous system. [2-3-0]	In Person Learning	Arranged	Arranged
RHSC_V 420-003	RHSC_V	420	003	Elements of Neuroanatomy and Neurophysiology	W2	An introduction to the structure and function of the human nervous system. [2-3-0]	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
RHSC_V 420-L01	RHSC_V	420	L01	Elements of Neuroanatomy and Neurophysiology	W2	An introduction to the structure and function of the human nervous system. [2-3-0]	In Person Learning	Arranged	Arranged
RHSC_V 420-L02	RHSC_V	420	L02	Elements of Neuroanatomy and Neurophysiology	W2	An introduction to the structure and function of the human nervous system. [2-3-0]	In Person Learning	Arranged	Arranged
RHSC_V 420-L03	RHSC_V	420	L03	Elements of Neuroanatomy and Neurophysiology	W2	An introduction to the structure and function of the human nervous system. [2-3-0]	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.

RHSC_V 500-001	RHSC_V	500	001	Advanced Concepts for Rehabilitation Research	W1	Issues relevant to clinical investigations in rehabilitation. Emphasis on research design, measurement issues, selection of analytical approaches, and relevant epidemiological concepts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.	
RHSC_V 501-001	RHSC_V	501	001	Evidence for Practice	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 501-006	RHSC_V	501	006	Evidence for Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
RHSC_V 502-001	RHSC_V	502	001	Rehabilitation Theory	W2	The history, evolution and analysis of conceptual systems underlying practice in occupational therapy and physical therapy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.	
RHSC_V 503-006	RHSC_V	503	006	Reasoning and Decision-Making	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 503-007	RHSC_V	503	007	Reasoning and Decision-Making	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 504-A_001	RHSC_V	504	A	A_001	Directed Studies in Rehabilitation	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
RHSC_V 504-A_002	RHSC_V	504	A	A_002	Directed Studies in Rehabilitation	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
RHSC_V 504-C_005	RHSC_V	504	C	C_005	Directed Studies in Rehabilitation	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
RHSC_V 505-006	RHSC_V	505	006	Measurement for Assessment, Planning, and Evaluation	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 505-007	RHSC_V	505	007	Measurement for Assessment, Planning, and Evaluation	W1-2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 506-A_001	RHSC_V	506	A	A_001	Current Topics in Rehabilitation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 11:00 a.m.
RHSC_V 506-D_001	RHSC_V	506	D	D_001	Current Topics in Rehabilitation	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
RHSC_V 507-012	RHSC_V	507	012	Developing Effective Rehabilitation Programs	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 509-001	RHSC_V	509	001	Facilitating Learning in Rehabilitation Contexts	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 509-002	RHSC_V	509	002	Facilitating Learning in Rehabilitation Contexts	W1	This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged	
RHSC_V 515-002	RHSC_V	515	002	Physical Activity in Health and Chronic Conditions	W2	Epidemiology, measurement, physiology, and adoption of physical activity in the prevention and treatment of chronic conditions. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.	
RHSC_V 517-001	RHSC_V	517	001	Society and Human Occupation	W1	Explores society's influence on human occupation, conceptualized as all activities people do based on need, obligation, or preference. As the core construct of the discipline of occupational science and practice of occupational therapy, human occupation is examined for its impact across social, ethical and productive aspects of society. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.	
RHSC_V 519-001	RHSC_V	519	001	Neurotrauma - from Basic to Community Research	W2	Basic, clinical, and rehabilitation research. Challenges with translational approaches and clinical issues facing people living with spinal cord and traumatic brain injury as they transition into the community. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.	
RHSC_V 530-001	RHSC_V	530	001	Research Proposal	W1	Development, appraisal and formatting of a research proposal. Emphasis on research writing and critical analysis of a variety of research proposal formats. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.	
RHSC_V 530-002	RHSC_V	530	002	Research Proposal	W2	Development, appraisal and formatting of a research proposal. Emphasis on research writing and critical analysis of a variety of research proposal formats. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.	
RHSC_V 537-001	RHSC_V	537	001	Randomized Intervention Trials in Rehabilitation	W2	Co-requisite: RHSC 500 or equivalent graduate or senior undergraduate course (300-400 level) on general quantitative and qualitative research methods.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.	

RHSC_V 549-001	RHSC_V	549	001	M.Sc. Thesis		W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
RHSC_V 549-002	RHSC_V	549	002	M.Sc. Thesis		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
RHSC_V 549-003	RHSC_V	549	003	M.Sc. Thesis		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
RHSC_V 583-A_022	RHSC_V	583	A	A_022	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-A_025	RHSC_V	583	A	A_025	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-A_026	RHSC_V	583	A	A_026	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-B_022	RHSC_V	583	B	B_022	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-B_025	RHSC_V	583	B	B_025	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-B_026	RHSC_V	583	B	B_026	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-C_022	RHSC_V	583	C	C_022	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-C_025	RHSC_V	583	C	C_025	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-C_026	RHSC_V	583	C	C_026	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-D_022	RHSC_V	583	D	D_022	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-D_025	RHSC_V	583	D	D_025	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 583-D_026	RHSC_V	583	D	D_026	Applying Research to Practice	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501. The credit value for this course will be determined in consultation with the student prior to the registration	Online Learning	Arranged	Arranged
RHSC_V 585-006	RHSC_V	585	006	Directed Studies		W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501.	Online Learning	Arranged	Arranged
RHSC_V 587-006	RHSC_V	587	006	Major Project, Part I		W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the project coordinator is required.	Online Learning	Arranged	Arranged
RHSC_V 591-001	RHSC_V	591	001	Leadership in Rehabilitation		W1	Leadership approaches, styles and research evidence applied to clinical rehabilitation contexts; Role and critique of emotional intelligence in effective personal leadership practices. This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501.	Online Learning	Arranged	Arranged
RHSC_V 699-001	RHSC_V	699	001	Doctoral Dissertation		W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
RHSC_V 699-002	RHSC_V	699	002	Doctoral Dissertation		W1	Pass/Fail.	In Person Learning	Arranged	Arranged
RHSC_V 699-003	RHSC_V	699	003	Doctoral Dissertation		W2	Pass/Fail.	In Person Learning	Arranged	Arranged
RMST_V 100-101	RMST_V	100	101	Introduction to Romance Cultures		W1	Explore the diverse cultures of France, Spain, Italy, Latin America and the Romance-speaking world from a comparative perspective.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
RMST_V 201-101	RMST_V	201	101	Introduction to Literatures and Cultures of the Romance World I: Medieval to Early Modern		W1	An introduction to the main themes that shaped the Romance World as its different national identities emerged in the Mediterranean sphere.	In Person Learning	Thu	12:30 p.m. - 2:00 p.m.

RMST_V 201-W01	RMST_V	201	W01	Introduction to Literatures and Cultures of the Romance World I: Medieval to Early Modern	W1	An introduction to the main themes that shaped the Romance World as its different national identities emerged in the Mediterranean sphere.	In Person Learning	Arranged	Arranged
RMST_V 202-101	RMST_V	202	101	Introduction to Literatures and Cultures of the Romance World II: Modern to Post-Modern	W1	An introduction to the main themes that shaped the Romance World in the age of the nation state, imperialism, colonization, and decolonization.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
RMST_V 202-201	RMST_V	202	201	Introduction to Literatures and Cultures of the Romance World II: Modern to Post-Modern	W2	An introduction to the main themes that shaped the Romance World in the age of the nation state, imperialism, colonization, and decolonization.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
RMST_V 202-W02	RMST_V	202	W02	Introduction to Literatures and Cultures of the Romance World II: Modern to Post-Modern	W2	An introduction to the main themes that shaped the Romance World in the age of the nation state, imperialism, colonization, and decolonization.	In Person Learning	Arranged	Arranged
RMST_V 260-101	RMST_V	260	101	Introduction to the Analysis of Portuguese and Brazilian Cultures	W1	Critical analysis of different cultural genres, including music, film and visual art through the study of selected Portuguese and Brazilian texts. Credit will be granted for only one of PORT 222 or RMST 260.	In Person Learning	Arranged	Arranged
RMST_V 260-102	RMST_V	260	102	Introduction to the Analysis of Portuguese and Brazilian Cultures	W1	Critical analysis of different cultural genres, including music, film and visual art through the study of selected Portuguese and Brazilian texts. Credit will be granted for only one of PORT 222 or RMST 260. Equivalency: PORT 222.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
RMST_V 260-201	RMST_V	260	201	Introduction to the Analysis of Portuguese and Brazilian Cultures	W1	Critical analysis of different cultural genres, including music, film and visual art through the study of selected Portuguese and Brazilian texts. Credit will be granted for only one of PORT 222 or RMST 260. Equivalency: PORT 222.	In Person Learning	Arranged	Arranged
RMST_V 280-101	RMST_V	280	101	Revolution!	W1	Concepts, theories, and practice of protest, revolt, and revolution in the Hispanic world, highlighting the intersection of politics and culture through novels, poetry, letters, diaries, and/or historical accounts of specific revolutionary uprisings. Credit will be granted for only one of SPAN 280 or RMST 280. Equivalency: SPAN 280.	In Person Learning	Arranged	Arranged
RMST_V 280-W01	RMST_V	280	W01	Revolution!	W1	Concepts, theories, and practice of protest, revolt, and revolution in the Hispanic world, highlighting the intersection of politics and culture through novels, poetry, letters, diaries, and/or historical accounts of specific revolutionary uprisings. Credit will be granted for only one of SPAN 280 or RMST 280. Equivalency: SPAN 280.	In Person Learning	Arranged	Arranged
RMST_V 301-101	RMST_V	301	101	Prose Fiction and Non-Fiction of the Romance World	W1	Fiction and non-fiction of the Romance-speaking world from the Middle Ages to the present day from a comparative perspective.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
RMST_V 302-201	RMST_V	302	201	Theatre and Poetry of the Romance World	W2	Theatre and poetry of the Romance-speaking world from the Middle Ages to the present day from a comparative perspective.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
RMST_V 304-201	RMST_V	304	201	Afterlife of the Text: Rewritings and Adaptations	W2	How stories travel across media and across national and linguistic boundaries in the Romance-speaking world. Dialogue between different versions and inter-media translations. Questions of authorship and reception.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
RMST_V 305-101	RMST_V	305	101	Introduction to Romance Language Cinema	W1	Overview of the history, aesthetics and characteristics of films in French, Italian, Spanish, and/or Portuguese. Credit will be granted for only one of RMST 234 or RMST 305. Equivalency: RMST 234.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
RMST_V 321-201	RMST_V	321	201	French Literature from the Middle Ages to the Revolution	W2	French literature through reading and analysis of translated works. Credit will be granted for only one of RMST_V 321 or MDVL V 301. Equivalency: MDVL V 301.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
RMST_V 345-101	RMST_V	345	101	Italian Fascism in Interdisciplinary Perspective	W1	The cultural, literary, philosophical roots of Fascism and its evolution: its policies in literature, sports, cinema, architecture, racial legislation, and colonial adventures. Credit will be granted for only one of ITAL 345, ITST 345 or RMST 345. Equivalency: ITAL 345, ITST 345	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
RMST_V 350-B_201	RMST_V	350	B_201	Special Topics in Italian Studies	W2	Study of Italian literatures, cultures, languages, or communities. Topics vary from section to section. Consult Department for current offerings.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
RMST_V 361-201	RMST_V	361	201	Studies in Portuguese and Brazilian Literature	W2	Selected topics. Please see the Department website for current course offering information. Credit will be granted for only one of PORT 392 or RMST 361. Equivalency: PORT 392.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
RMST_V 375-201	RMST_V	375	201	The Caribbean: Frontiers of the Romance World	W2	Literature and culture from the island of Hispaniola (Haiti, Dominican Republic) and the French Caribbean from a comparative perspective.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
RMST_V 400-201	RMST_V	400	201	Romance Linguistics	W2	Vocabulary, phonetics, phonology, morphology, syntax, and sociolinguistics of spoken and written Romance languages. Credit will be granted for only one of RMST 400 or RMST 468. Prerequisite: 2nd year standing. A beginners knowledge (CFER A1) in at least one of the Romance languages is highly recommended.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
RMST_V 402-101	RMST_V	402	101	Visions of Nature and the Environment in the Romance World	W1	History, literature and philosophy of anthropization and ecology in the Romance world. Recommended: Second-year standing or higher.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
RMST_V 419-101	RMST_V	419	101	Studies in Romance Languages and Literature	W1	Study of a literary or cultural topic that extends beyond just one of the Romance Languages. Consult the Department for this year's offerings. Recommended: Second-year standing or higher.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
RMST_V 452-101	RMST_V	452	101	Italian Cinema and Its Cultural Background	W1	Films with English subtitles. Course content will vary. Credit will be granted for only one of RMST 452, ITST 432 or ITAL 430. Equivalency: ITAL 430 or ITST 432.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
RMST_V 453-101	RMST_V	453	101	Dante Alighieri's Divine Comedy	W1	A close reading of Dante's masterpiece, along with excerpts from some of his other works: Vita Nuova, Convivio, Monarchia, Epistles. Credit will be granted for only one of RMST 453, ITST 413 or ITAL 403. Equivalency: ITST 413 or ITAL 403.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.

RMST_V 459-201	RMST_V	459	201	Topics in Modern and Contemporary Italian Literature and Culture	W2	Italian literature of the 20th century in its intellectual, socio-political and cultural context. Credit will be granted for only one of RMST 459, ITST 419 or ITAL 409. Recommended pre-requisite: Second-year standing or higher. Equivalency: ITST 419 or ITAL 409.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
RUSS_V 101-101	RUSS_V	101	101	Basic Russian I	W1	Introduction to contemporary Russian. Oral practice, grammar, reading, and writing.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
RUSS_V 101-102	RUSS_V	101	102	Basic Russian I	W1	Introduction to contemporary Russian. Oral practice, grammar, reading, and writing.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
RUSS_V 101-103	RUSS_V	101	103	Basic Russian I	W1	Introduction to contemporary Russian. Oral practice, grammar, reading, and writing.	Multi-access Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
RUSS_V 102-201	RUSS_V	102	201	Basic Russian II	W2	Continuation of RUSS 101.	Online Learning	Mon Wed	5:00 p.m. - 6:30 p.m.
RUSS_V 102-202	RUSS_V	102	202	Basic Russian II	W2	Continuation of RUSS 101.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
RUSS_V 201-101	RUSS_V	201	101	Second-Year Russian I	W1	Intermediate oral practice, grammar, reading, composition. A special section may be provided for Science students. Credit will be granted for only one of RUSS 201 or RUSS 200. Recommended pre-requisites: one of RUSS 100, RUSS 102.	Multi-access Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
RUSS_V 202-201	RUSS_V	202	201	Second-Year Russian II	W2	A continuation of RUSS 201. Intermediate oral practice, grammar, reading, composition. A special section may be provided for Science students. Credit will be granted for only one of RUSS 202 or RUSS 200. Recommended pre-requisite: RUSS 201.	Online Learning	Tue Thu	5:00 p.m. - 6:30 p.m.
RUSS_V 206-201	RUSS_V	206	201	Nineteenth-Century Russian Writers in Translation	W2	The writings, lives, and thought of selected authors.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
RUSS_V 301-201	RUSS_V	301	201	Third-Year Russian I	W2	Advanced intermediate oral practice, syntax and composition. Credit will be granted for only one of RUSS 301 or 300. Recommended pre-requisites: one of RUSS 200, RUSS 202.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
RUSS_V 306-A_101	RUSS_V	306	A	A_101	W1	A comprehensive historical and critical presentation with emphasis on the nineteenth and twentieth centuries.	In Person Learning	Arranged	Arranged
RUSS_V 315-101	RUSS_V	315	101	Advanced Russian Practice	W1	Continuation of RUSS 215. May be taken concurrently with RUSS 300. Recommended pre-requisite: RUSS 215.	Online Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
RUSS_V 323-A_201	RUSS_V	323	A	A_201	W2	Russian genre fiction and film (science fiction, fantasy and gothic).	In Person Learning	Arranged	Arranged
SANS_V 300-001	SANS_V	300	001	Introductory Sanskrit	W1-2	Basic vocabulary and most important grammatical features of classical Sanskrit. Useful to students of South Asian history, culture, languages, philosophies, and religions, and of linguistics and classics. Credit will be granted for only one of SANS 300 or SANS 102 or both SANS 100, SANS 101 or both SANS 301, SANS 302.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SANS_V 450-A_001	SANS_V	450	A	A_001	W1-2	Study of selected texts belonging to a particular period (e.g., Vedic) or representing a specific branch of kavya (poetic literature) or sastra (technical-philosophical literature). Recommended pre-requisites: one of SANS 200, SANS 202, SANS 400, SANS 402.	In Person Learning	Arranged	Arranged
SCIE_V 001-001	SCIE_V	1	001	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Mon Wed	10:00 a.m. - 1:00 p.m.
SCIE_V 001-001-1	SCIE_V	1	001-1	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Arranged	Arranged
SCIE_V 001-001-2	SCIE_V	1	001-2	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Arranged	Arranged
SCIE_V 001-001-3	SCIE_V	1	001-3	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Arranged	Arranged

SCIE_V 001-L01	SCIE_V	1	L01	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website ( <a href="http://www.scienceone.ubc.ca">www.scienceone.ubc.ca</a> ) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
SCIE_V 001-L02	SCIE_V	1	L02	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website ( <a href="http://www.scienceone.ubc.ca">www.scienceone.ubc.ca</a> ) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Arranged	Arranged
SCIE_V 001-L03	SCIE_V	1	L03	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website ( <a href="http://www.scienceone.ubc.ca">www.scienceone.ubc.ca</a> ) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
SCIE_V 001-T01	SCIE_V	1	T01	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website ( <a href="http://www.scienceone.ubc.ca">www.scienceone.ubc.ca</a> ) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
SCIE_V 001-T02	SCIE_V	1	T02	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website ( <a href="http://www.scienceone.ubc.ca">www.scienceone.ubc.ca</a> ) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
SCIE_V 001-T03	SCIE_V	1	T03	Science One	W1-2	An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website ( <a href="http://www.scienceone.ubc.ca">www.scienceone.ubc.ca</a> ) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either BIOL 11 or BIOL 12).	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
SCIE_V 100-100	SCIE_V	100	100	First-Year Focus Seminar	W1	Seminar for First-Year Focus option focused on discipline-specific learning strategies for academic success and community and scholarly engagement. This course is restricted to first-year students in the First-Year Focus option. Pass/Fail This course is not eligible for Credit/D/Fail grading. [1*-0-1*]	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
SCIE_V 113-09A	SCIE_V	113	09A	First-Year Seminar in Science	W1	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09B	SCIE_V	113	09B	First-Year Seminar in Science	W1	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09C	SCIE_V	113	09C	First-Year Seminar in Science	W1	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09D	SCIE_V	113	09D	First-Year Seminar in Science	W1	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09E	SCIE_V	113	09E	First-Year Seminar in Science	W1	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09F	SCIE_V	113	09F	First-Year Seminar in Science	W1	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09G	SCIE_V	113	09G	First-Year Seminar in Science	W1	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	Online Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09I	SCIE_V	113	09I	First-Year Seminar in Science	W2	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09J	SCIE_V	113	09J	First-Year Seminar in Science	W2	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09K	SCIE_V	113	09K	First-Year Seminar in Science	W2	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SCIE_V 113-09L	SCIE_V	113	09L	First-Year Seminar in Science	W2	Small-group experience where students study science in society, scientific process, and how to communicate scientific concepts. Enrolment limited to students in the B. Sc. program in Science. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.









SCIE_V 300-111	SCIE_V	300		111	Communicating Science	W1	Effective communication and presentation skills in science. [1-0-3] Corequisite: One of BIOL 300, STAT 200, STAT 241. and 3rd or 4th year standing in Combined Major in Science.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SCIE_V 300-112	SCIE_V	300		112	Communicating Science	W1	Effective communication and presentation skills in science. [1-0-3] Corequisite: One of BIOL 300, STAT 200, STAT 241. and 3rd or 4th year standing in Combined Major in Science.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
SCIE_V 300-211	SCIE_V	300		211	Communicating Science	W2	Effective communication and presentation skills in science. [1-0-3] Corequisite: One of BIOL 300, STAT 200, STAT 241. and 3rd or 4th year standing in Combined Major in Science.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SCIE_V 300-212	SCIE_V	300		212	Communicating Science	W2	Effective communication and presentation skills in science. [1-0-3] Corequisite: One of BIOL 300, STAT 200, STAT 241. and 3rd or 4th year standing in Combined Major in Science.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
SCIE_V 300-213	SCIE_V	300		213	Communicating Science	W2	Effective communication and presentation skills in science. [1-0-3] Corequisite: One of BIOL 300, STAT 200, STAT 241. and 3rd or 4th year standing in Combined Major in Science.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
SCIE_V 300-GP1	SCIE_V	300		GP1	Communicating Science	W1	Effective communication and presentation skills in science. [1-0-3] Corequisite: One of BIOL 300, STAT 200, STAT 241. and 3rd or 4th year standing in Combined Major in Science.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
SCIE_V 300-GP2	SCIE_V	300		GP2	Communicating Science	W2	Effective communication and presentation skills in science. [1-0-3] Corequisite: One of BIOL 300, STAT 200, STAT 241. and 3rd or 4th year standing in Combined Major in Science.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
SCIE_V 400-101	SCIE_V	400		101	Discipline-based Education Research Methodology	W1	Overview of methodological approaches to education research in disciplines having natural, physical, and life-science foundations. Prerequisite: Third-year standing and permission of the instructor. Equivalency: SCIE500	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
SCIE_V 500-101	SCIE_V	500		101	Discipline-based Education Research Methodology	W1	Overview of methodological approaches to education research in disciplines having natural, physical, and life-science foundations. This course is not eligible for Credit/D/Fail grading. Equivalency: SCIE 400	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
SLAV_V 105-101	SLAV_V	105		101	Introduction to Russian and Slavic Culture	W1-2	Cultural developments from the medieval period to the present.	In Person Learning	Arranged	Arranged
SLAV_V 307-A_201	SLAV_V	307	A	A_201	Literature and Film in Eastern Europe	W2	Films and translated literature by Slavic writers with emphasis on the interaction between politics and literature.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
SOCI_V 100-306	SOCI_V	100		306	Introduction to Sociology	W1-2	Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of SOCI 100 or both SOCI 101, SOCI 102.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
SOCI_V 100-D6A	SOCI_V	100		D6A	Introduction to Sociology	W1-2	Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of SOCI 100 or both SOCI 101, SOCI 102.	In Person Learning	Mon	11:00 a.m. - 12:00 p.m.
SOCI_V 100-D6B	SOCI_V	100		D6B	Introduction to Sociology	W1-2	Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of SOCI 100 or both SOCI 101, SOCI 102.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
SOCI_V 100-D6C	SOCI_V	100		D6C	Introduction to Sociology	W1-2	Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of SOCI 100 or both SOCI 101, SOCI 102.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
SOCI_V 100-D6D	SOCI_V	100		D6D	Introduction to Sociology	W1-2	Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of SOCI 100 or both SOCI 101, SOCI 102.	In Person Learning	Thu	4:00 p.m. - 5:00 p.m.
SOCI_V 100-D6E	SOCI_V	100		D6E	Introduction to Sociology	W1-2	Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of SOCI 100 or both SOCI 101, SOCI 102.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
SOCI_V 100-D6F	SOCI_V	100		D6F	Introduction to Sociology	W1-2	Introduction to problems in the analysis of social structures and processes. Basic sociological concepts will be introduced and their application demonstrated in various areas of sociology. Credit will be granted for only one of SOCI 100 or both SOCI 101, SOCI 102.	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
SOCI_V 101-101	SOCI_V	101		101	Social Interaction and Culture	W1	Culture, identity, social interaction, relationships and socialization. Credit will be granted for only one of SOCI 101 or SOCI 100.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SOCI_V 101-102	SOCI_V	101		102	Social Interaction and Culture	W1	Culture, identity, social interaction, relationships and socialization. Credit will be granted for only one of SOCI 101 or SOCI 100.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
SOCI_V 101-201	SOCI_V	101		201	Social Interaction and Culture	W2	Culture, identity, social interaction, relationships and socialization. Credit will be granted for only one of SOCI 101 or SOCI 100.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 101-202	SOCI_V	101		202	Social Interaction and Culture	W2	Culture, identity, social interaction, relationships and socialization. Credit will be granted for only one of SOCI 101 or SOCI 100.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 101-A11	SOCI_V	101		A11	Social Interaction and Culture	W1	Culture, identity, social interaction, relationships and socialization. Credit will be granted for only one of SOCI 101 or SOCI 100.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.







SOCI_V 102-G11	SOCI_V	102	G11	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
SOCI_V 102-G12	SOCI_V	102	G12	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
SOCI_V 102-G21	SOCI_V	102	G21	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
SOCI_V 102-G24	SOCI_V	102	G24	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
SOCI_V 102-H11	SOCI_V	102	H11	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
SOCI_V 102-H12	SOCI_V	102	H12	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
SOCI_V 102-H21	SOCI_V	102	H21	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	4:00 p.m. - 5:00 p.m.
SOCI_V 102-H24	SOCI_V	102	H24	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
SOCI_V 102-I11	SOCI_V	102	I11	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
SOCI_V 102-I12	SOCI_V	102	I12	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
SOCI_V 102-I21	SOCI_V	102	I21	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
SOCI_V 102-I24	SOCI_V	102	I24	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
SOCI_V 102-J11	SOCI_V	102	J11	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
SOCI_V 102-J12	SOCI_V	102	J12	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
SOCI_V 102-J21	SOCI_V	102	J21	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
SOCI_V 102-J24	SOCI_V	102	J24	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
SOCI_V 102-K11	SOCI_V	102	K11	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
SOCI_V 102-K21	SOCI_V	102	K21	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
SOCI_V 102-L11	SOCI_V	102	L11	Inequality and Social Change	W1	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Wed	11:00 a.m. - 12:00 p.m.
SOCI_V 102-L21	SOCI_V	102	L21	Inequality and Social Change	W2	Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
SOCI_V 200-101	SOCI_V	200	101	Sociology of Family	W1	An introduction to contemporary family forms and relations.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SOCI_V 200-103	SOCI_V	200	103	Sociology of Family	W1	An introduction to contemporary family forms and relations.	In Person Learning	Arranged	Arranged
SOCI_V 200-108	SOCI_V	200	108	Sociology of Family	W1	An introduction to contemporary family forms and relations.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.

SOCI_V 200-201	SOCI_V	200	201	Sociology of Family	W2	An introduction to contemporary family forms and relations.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
SOCI_V 200-202	SOCI_V	200	202	Sociology of Family	W2	An introduction to contemporary family forms and relations.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
SOCI_V 200-203	SOCI_V	200	203	Sociology of Family	W2	An introduction to contemporary family forms and relations.	In Person Learning	Arranged	Arranged
SOCI_V 201-102	SOCI_V	201	102	Ethnicity	W1	An introduction to the study of the relations between ethnic groups and of the interplay between ethnicity and other social factors.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 217-101	SOCI_V	217	101	Research Methods	W1	Introduction to research designs and methodologies. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 217-201	SOCI_V	217	201	Research Methods	W2	Introduction to research designs and methodologies. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
SOCI_V 220-101	SOCI_V	220	101	Sociology of Indigenous Peoples	W1	Sociological perspective of Indigenous peoples and issues both internationally and within Canada.	In Person Learning	Arranged	Arranged
SOCI_V 220-201	SOCI_V	220	201	Sociology of Indigenous Peoples	W2	Sociological perspective of Indigenous peoples and issues both internationally and within Canada.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
SOCI_V 224-208	SOCI_V	224	208	Sociology of Personal Life	W2	A sociological examination of everyday life exploring the social in the personal.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 230-101	SOCI_V	230	101	Shopping, Society, and Sustainability	W2	Major theories of consumer society, evaluating impacts of shopping on human and non-human environments and popular solutions to these impacts.	In Person Learning	Arranged	Arranged
SOCI_V 230-107	SOCI_V	230	107	Shopping, Society, and Sustainability	W1	Major theories of consumer society, evaluating impacts of shopping on human and non-human environments and popular solutions to these impacts.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 230-201	SOCI_V	230	201	Shopping, Society, and Sustainability	W2	Major theories of consumer society, evaluating impacts of shopping on human and non-human environments and popular solutions to these impacts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 240-201	SOCI_V	240	201	Introduction to Social Interaction	W2	Research on social interaction, with an emphasis on group (as opposed to individual) processes and behaviour.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
SOCI_V 250-102	SOCI_V	250	102	Crime and Society	W1	Crime as a social phenomenon, with emphasis on the changing definitions of crime in relation to social and political change in Canadian and other societies.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SOCI_V 250-103	SOCI_V	250	103	Crime and Society	W1	Crime as a social phenomenon, with emphasis on the changing definitions of crime in relation to social and political change in Canadian and other societies.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 250-201	SOCI_V	250	201	Crime and Society	W2	Crime as a social phenomenon, with emphasis on the changing definitions of crime in relation to social and political change in Canadian and other societies.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
SOCI_V 250-203	SOCI_V	250	203	Crime and Society	W2	Crime as a social phenomenon, with emphasis on the changing definitions of crime in relation to social and political change in Canadian and other societies.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 260-101	SOCI_V	260	101	Work and Society	W1	Social forces responsible for changing patterns of technological innovation and work organization in modern industrial societies. Emphasis on the organization of work, labour force dynamics, and technological change.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
SOCI_V 280-101	SOCI_V	280	101	Data and Society	W1	Impacts of changing information and communication technologies on societies and social interactions.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SOCI_V 284-201	SOCI_V	284	201	Health and Society	W2	An introduction to health and illness through a sociological lens. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
SOCI_V 290-203	SOCI_V	290	203	Global Pandemics	W2	Global pandemics in relation to social inequality, social interaction and social institutions.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
SOCI_V 301-101	SOCI_V	301	101	Sociology of Development and Underdevelopment	W1	Processes of social change in the Third World and other developing countries. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SOCI_V 301-201	SOCI_V	301	201	Sociology of Development and Underdevelopment	W2	Processes of social change in the Third World and other developing countries. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Arranged	Arranged

SOCI_V 302-104	SOCI_V	302	104	Ethnic and Racial Inequality	W1	A critical examination of classical and contemporary theories and research evidence concerning ethnic and racial inequality at the societal and interpersonal levels. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
SOCI_V 302-204	SOCI_V	302	204	Ethnic and Racial Inequality	W2	A critical examination of classical and contemporary theories and research evidence concerning ethnic and racial inequality at the societal and interpersonal levels. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 303-101	SOCI_V	303	101	Sociology of Migration	W1	Sociological approaches to the movement of peoples and its impact over time. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 303-201	SOCI_V	303	201	Sociology of Migration	W2	Sociological approaches to the movement of peoples and its impact over time. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 310-101	SOCI_V	310	101	Canadian Society	W1	Social organization of Canadian society: relationships between social institutions and social processes (e.g., economics, education, family, law, media, and politics); including issues of ancestry, ethnicity, gender, region, and social class. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
SOCI_V 310-202	SOCI_V	310	202	Canadian Society	W2	Social organization of Canadian society: relationships between social institutions and social processes (e.g., economics, education, family, law, media, and politics); including issues of ancestry, ethnicity, gender, region, and social class. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
SOCI_V 312-101	SOCI_V	312	101	Gender Relations	W1	The nature of gender relations, their social and cultural expression, and theories of gender inequality. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 312-202	SOCI_V	312	202	Gender Relations	W2	The nature of gender relations, their social and cultural expression, and theories of gender inequality. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	3:00 p.m. - 4:30 p.m.
SOCI_V 314-201	SOCI_V	314	201	Sociology of Masculinity	W2	How masculinity differs across social contexts and time periods. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 320-101	SOCI_V	320	101	Diversity in Family Forms	W1	An examination of diversity within and between families and of diverse family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
SOCI_V 320-201	SOCI_V	320	201	Diversity in Family Forms	W2	An examination of diversity within and between families and of diverse family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 328-101	SOCI_V	328	101	Social Statistics I	W1	The testing of sociological theories using quantitative data analysis techniques on numerical data from social surveys, experiments and official statistics. SOCI 328 excludes credit for a number of other statistics courses in various departments. Please consult the Science Credit Exclusion List ( <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> ) before registering. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
SOCI_V 328-201	SOCI_V	328	201	Social Statistics I	W2	The testing of sociological theories using quantitative data analysis techniques on numerical data from social surveys, experiments and official statistics. SOCI 328 excludes credit for a number of other statistics courses in various departments. Please consult the Science Credit Exclusion List ( <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> ) before registering. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
SOCI_V 328-202	SOCI_V	328	202	Social Statistics I	W2	The testing of sociological theories using quantitative data analysis techniques on numerical data from social surveys, experiments and official statistics. SOCI 328 excludes credit for a number of other statistics courses in various departments. Please consult the Science Credit Exclusion List ( <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> ) before registering. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SOCI_V 342-103	SOCI_V	342	103	Consumers and Consumption	W1	The structure and culture of consuming and consumption. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
SOCI_V 342-201	SOCI_V	342	201	Consumers and Consumption	W2	The structure and culture of consuming and consumption. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Arranged	Arranged
SOCI_V 344-101	SOCI_V	344	101	Sociology of Aging	W1	Demographic, economic, and social trends associated with aging, ageism, and aging populations. Credit will be granted for only one of SOCI 344 and SOCI 444. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Arranged	Arranged
SOCI_V 352-101	SOCI_V	352	101	Work and Inequality	W1	The meaning of work and leisure, properties of work organization, the division of labour, and the relation of work and social inequality. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	Online Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 352-201	SOCI_V	352	201	Work and Inequality	W2	The meaning of work and leisure, properties of work organization, the division of labour, and the relation of work and social inequality. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 354-201	SOCI_V	354	201	Community Studies	W2	Study of the organization of human communities; a focus upon collective activities including family, work, neighbourhood, and formal and informal networks. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Wed	12:30 p.m. - 2:00 p.m.
SOCI_V 354-202	SOCI_V	354	202	Community Studies	W2	Study of the organization of human communities; a focus upon collective activities including family, work, neighbourhood, and formal and informal networks. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.

SOCI_V 360-101	SOCI_V	360	101	Sociology and Natural Resources	W1	Sociological perspectives on property, resource industries (such as agriculture, fishing, forestry and mining), resource development, and resource communities. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 360-202	SOCI_V	360	202	Sociology and Natural Resources	W2	Sociological perspectives on property, resource industries (such as agriculture, fishing, forestry and mining), resource development, and resource communities. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 361-101	SOCI_V	361	101	Social Inequality	W1	Tendencies toward equality and inequality; manifestations of inequality (occupation, education, gender, ethnicity, income, power) and their consequences; caste and class features of major stratification systems; theories of social class; stratification profile of contemporary industrial societies. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
SOCI_V 364-201	SOCI_V	364	201	Built Environments	W2	Physical, social, and economic aspects of built environments, including housing and community planning. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
SOCI_V 369-102	SOCI_V	369	102	Sociology of Sexualities	W1	Historical and social construction of sexual identities, desires, communities, and politics in the twentieth century. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Tue	6:00 p.m. - 9:00 p.m.
SOCI_V 369-203	SOCI_V	369	203	Sociology of Sexualities	W2	Historical and social construction of sexual identities, desires, communities, and politics in the twentieth century. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 370-301	SOCI_V	370	301	Sociological Theories: Classical and Contemporary Approaches	W1-2	An examination of selected traditions, conceptual problems, and current topics in the field of sociological theory. Credit will be granted for only one of SOCI 370 or both SOCI 371, SOCI 372. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
SOCI_V 371-101	SOCI_V	371	101	Classical Traditions in Theory	W1	An examination of selected traditions, conceptual problems and topics in the foundational theories of sociology. Credit will be granted for only one of SOCI 371 or SOCI 370. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 371-202	SOCI_V	371	202	Classical Traditions in Theory	W2	An examination of selected traditions, conceptual problems and topics in the foundational theories of sociology. Credit will be granted for only one of SOCI 371 or SOCI 370. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
SOCI_V 372-101	SOCI_V	372	101	Contemporary Directions in Theory	W1	A survey of theories in contemporary sociology. Credit will be granted for only one of SOCI 372 or SOCI 370. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
SOCI_V 372-201	SOCI_V	372	201	Contemporary Directions in Theory	W2	A survey of theories in contemporary sociology. Credit will be granted for only one of SOCI 372 or SOCI 370. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SOCI_V 380-101	SOCI_V	380	101	Sociological Methods: Survey Research	W1	Questionnaire design, interviewing, sampling, and analysis of survey data. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 217.	In Person Learning	Arranged	Arranged
SOCI_V 380-102	SOCI_V	380	102	Sociological Methods: Survey Research	W1	Questionnaire design, interviewing, sampling, and analysis of survey data. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 217.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SOCI_V 380-203	SOCI_V	380	203	Sociological Methods: Survey Research	W2	Questionnaire design, interviewing, sampling, and analysis of survey data. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 217.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
SOCI_V 382-103	SOCI_V	382	103	Sociological Methods: Qualitative Research	W1	Examination of the different traditions of qualitative sociological inquiry and the associated methodological features used to study the interpretive practices and meanings in the everyday lives of individuals. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102 and SOCI 217.	In Person Learning	Arranged	Arranged
SOCI_V 382-201	SOCI_V	382	201	Sociological Methods: Qualitative Research	W2	Examination of the different traditions of qualitative sociological inquiry and the associated methodological features used to study the interpretive practices and meanings in the everyday lives of individuals. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102 and SOCI 217.	In Person Learning	Tue Thu	3:30 p.m. - 4:30 p.m.
SOCI_V 384-101	SOCI_V	384	101	Sociology of Health and Illness	W1	Classic and contemporary sociological perspectives on health, illness, and health care. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
SOCI_V 384-201	SOCI_V	384	201	Sociology of Health and Illness	W2	Classic and contemporary sociological perspectives on health, illness, and health care. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Arranged	Arranged
SOCI_V 387-101	SOCI_V	387	101	Drugs and Society	W1	Social dimensions of the causes, consequences, regulation, and treatment of substance use from Canadian and international perspectives. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
SOCI_V 387-201	SOCI_V	387	201	Drugs and Society	W2	Social dimensions of the causes, consequences, regulation, and treatment of substance use from Canadian and international perspectives. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 414-101	SOCI_V	414	101	Feminist Theory	W1	The emergence of feminist theory, its relationship to sociology, and the major theoretical schools of thought. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
SOCI_V 414-201	SOCI_V	414	201	Feminist Theory	W2	The emergence of feminist theory, its relationship to sociology, and the major theoretical schools of thought. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
SOCI_V 415-A_103	SOCI_V	415	A	A_103	W1	Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.

SOCI_V 415-A_104	SOCI_V	415	A	A_104	Theories of Family and Kinship	W1	Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
SOCI_V 415-A_201	SOCI_V	415	A	A_201	Theories of Family and Kinship	W2	Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Wed Fri	10:30 a.m. - 12:00 p.m.
SOCI_V 415-A_202	SOCI_V	415	A	A_202	Theories of Family and Kinship	W2	Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
SOCI_V 415-A_203	SOCI_V	415	A	A_203	Theories of Family and Kinship	W2	Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
SOCI_V 415-A_204	SOCI_V	415	A	A_204	Theories of Family and Kinship	W2	Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200.	In Person Learning	Arranged	Arranged
SOCI_V 418-101	SOCI_V	418		101	Social Statistics II	W1	Primary emphasis on applications of statistical techniques to data in Sociology. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102 and SOCI 328.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 420-101	SOCI_V	420		101	Sociology of the Environment	W1	Sociological approaches to the study of environmental conflicts, issues, movements, impact of changing technology, economic development on the environment. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
SOCI_V 420-102	SOCI_V	420		102	Sociology of the Environment	W1	Sociological approaches to the study of environmental conflicts, issues, movements, impact of changing technology, economic development on the environment. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
SOCI_V 420-201	SOCI_V	420		201	Sociology of the Environment	W2	Sociological approaches to the study of environmental conflicts, issues, movements, impact of changing technology, economic development on the environment. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 420-202	SOCI_V	420		202	Sociology of the Environment	W2	Sociological approaches to the study of environmental conflicts, issues, movements, impact of changing technology, economic development on the environment. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
SOCI_V 420-203	SOCI_V	420		203	Sociology of the Environment	W2	Sociological approaches to the study of environmental conflicts, issues, movements, impact of changing technology, economic development on the environment. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Arranged	Arranged
SOCI_V 425-201	SOCI_V	425		201	Urban Sociology	W2	Demographic, behavioural, and organizational aspects of urban structures and of urbanization in different societies and periods. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
SOCI_V 433-A_101	SOCI_V	433	A	A_101	Directed Studies	W1	General reading and/or a research undertaking, with the agreement, and under the supervision, of a Department faculty member selected by the student. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102. And permission of the Department.	In Person Learning	Arranged	Arranged
SOCI_V 433-A_201	SOCI_V	433	A	A_201	Directed Studies	W2	General reading and/or a research undertaking, with the agreement, and under the supervision, of a Department faculty member selected by the student. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102. And permission of the Department.	In Person Learning	Arranged	Arranged
SOCI_V 433-B_301	SOCI_V	433	B	B_301	Directed Studies	W1-2	General reading and/or a research undertaking, with the agreement, and under the supervision, of a Department faculty member selected by the student. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102. And permission of the Department.	In Person Learning	Arranged	Arranged
SOCI_V 440-201	SOCI_V	440		201	Economic Sociology	W2	Analysis of economic actions and institutions using the concepts and methods of sociology. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue Thu	2:30 p.m. - 4:00 p.m.
SOCI_V 441-101	SOCI_V	441		101	Society, Economy and Family	W2	The study of family in social and economic contexts. Credit will be granted for only one of SOCI 441 and FMST 440. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200. Equivalency: FMST 440	In Person Learning	Arranged	Arranged
SOCI_V 441-201	SOCI_V	441		201	Society, Economy and Family	W2	The study of family in social and economic contexts. Credit will be granted for only one of SOCI 441 and FMST 440. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200. Equivalency: FMST 440	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SOCI_V 442-201	SOCI_V	442		201	Families and Work	W2	The effect of combining family and work roles. Credit will be granted for only one of SOCI 442 and FMST 442. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102, SOCI 200. Equivalency: FMST 442.	In Person Learning	Arranged	Arranged
SOCI_V 449-301	SOCI_V	449		301	Honours Tutorial	W1-2	Requires the presentation of at least one research paper. Restricted to students in the Sociology Honours program. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon	8:00 a.m. - 9:00 a.m.
SOCI_V 464-201	SOCI_V	464		201	Social Movements	W2	A study of the sources, stages, and effects of social movements in developing and modernized societies. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon Wed	3:30 p.m. - 5:00 p.m.
SOCI_V 464-202	SOCI_V	464		202	Social Movements	W2	A study of the sources, stages, and effects of social movements in developing and modernized societies. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon	10:00 a.m. - 1:00 p.m.
SOCI_V 466-201	SOCI_V	466		201	Sociology of Education	W2	Examines the role of schooling in modern society including links with inequality, knowledge production, socialization and the economy. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.

SOCI_V 490-201	SOCI_V	490	201	Contemporary Chinese Society	W2	Current social topics in Chinese society; perspectives on gender, inequality, culture, and social relations. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
SOCI_V 495-A_201	SOCI_V	495	A	A_201	Advanced Studies in Sociology	W2	An intensive examination of selected topics in Sociology. Consult the department for this year's offerings. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SOCI_V 495-B_201	SOCI_V	495	B	B_201	Advanced Studies in Sociology	W2	An intensive examination of selected topics in Sociology. Consult the department for this year's offerings. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
SOCI_V 495-C_201	SOCI_V	495	C	C_201	Advanced Studies in Sociology	W2	An intensive examination of selected topics in Sociology. Consult the department for this year's offerings. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
SOCI_V 501-201	SOCI_V	501	201	Contemporary Sociological Theory	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.	
SOCI_V 502-101	SOCI_V	502	101	Research Design and Techniques (Quantitative)	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
SOCI_V 503-101	SOCI_V	503	101	Research Design and Techniques (Qualitative)	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
SOCI_V 503-201	SOCI_V	503	201	Research Design and Techniques (Qualitative)	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
SOCI_V 514-201	SOCI_V	514	201	Analyzing Quantitative Data in Sociology	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: SOCI 502 is a prerequisite for Sociology graduate students. A background in material such as that covered in SOCI 502 is highly recommended for all others.	In Person Learning	Mon	10:00 a.m. - 1:00 p.m.	
SOCI_V 515-101	SOCI_V	515	101	Qualitative Data Analysis in Sociology	W1	This course is not eligible for Credit/D/Fail grading. Prerequisite: SOCI 503.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
SOCI_V 515-201	SOCI_V	515	201	Qualitative Data Analysis in Sociology	W2	This course is not eligible for Credit/D/Fail grading. Prerequisite: SOCI 503.	In Person Learning	Arranged	Arranged	
SOCI_V 549-A_101	SOCI_V	549	A	A_101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOCI_V 549-A_201	SOCI_V	549	A	A_201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOCI_V 549-B_301	SOCI_V	549	B	B_301	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOCI_V 598-A_101	SOCI_V	598	A	A_101	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOCI_V 598-A_201	SOCI_V	598	A	A_201	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOCI_V 598-C_301	SOCI_V	598	C	C_301	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOCI_V 599-A_201	SOCI_V	599	A	A_201	Special Topics Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
SOCI_V 599-B_201	SOCI_V	599	B	B_201	Special Topics Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:30 p.m. - 4:00 p.m.
SOCI_V 599-C_201	SOCI_V	599	C	C_201	Special Topics Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SOCI_V 599-D_002	SOCI_V	599	D	D_002	Special Topics Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
SOCI_V 599-H_201	SOCI_V	599	H	H_201	Special Topics Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
SOCI_V 649-101	SOCI_V	649	101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	

SOCI_V 649-201	SOCI_V	649	201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
SOCI_V 649-301	SOCI_V	649	301	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
SOIL_V 500-001	SOIL_V	500	001	Graduate Seminar	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 4:30 p.m.
SOIL_V 500-002	SOIL_V	500	002	Graduate Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 4:30 p.m.
SOIL_V 500-003	SOIL_V	500	003	Graduate Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 4:30 p.m.
SOIL_V 501-001	SOIL_V	501	001	Advanced Soil Processes	W1	Integrating the environmental factors influencing soil-forming processes and their ecological implications. Credit will be granted for only one of SOIL 501 or APBI 401. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SOIL_V 501-T01	SOIL_V	501	T01	Advanced Soil Processes	W1	Integrating the environmental factors influencing soil-forming processes and their ecological implications. Credit will be granted for only one of SOIL 501 or APBI 401. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	3:30 p.m. - 4:30 p.m.
SOIL_V 502-002	SOIL_V	502	002	Advanced Sustainable Soil Management	W2	Integration of fundamental, unifying, soil science principles in sustainable ecosystem management. Credit will be granted for only one of SOIL 502 or APBI 402. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
SOIL_V 502-D02	SOIL_V	502	D02	Advanced Sustainable Soil Management	W2	Integration of fundamental, unifying, soil science principles in sustainable ecosystem management. Credit will be granted for only one of SOIL 502 or APBI 402. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.
SOIL_V 503-001	SOIL_V	503	001	Advanced Soil Sampling, Analyses and Data Interpretation	W1	Field and laboratory analytical techniques in the chemical, biological and physical assessment of soils. Credit will be granted for only one of SOIL 503 or APBI 403. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
SOIL_V 503-D01	SOIL_V	503	D01	Advanced Soil Sampling, Analyses and Data Interpretation	W1	Field and laboratory analytical techniques in the chemical, biological and physical assessment of soils. Credit will be granted for only one of SOIL 503 or APBI 403. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
SOIL_V 503-L01	SOIL_V	503	L01	Advanced Soil Sampling, Analyses and Data Interpretation	W1	Field and laboratory analytical techniques in the chemical, biological and physical assessment of soils. Credit will be granted for only one of SOIL 503 or APBI 403. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
SOIL_V 515-001	SOIL_V	515	001	Watershed Science	W1	Watershed evaluation, key aspects of hydrology, water quality, land use impacts on water resources and integration of multiple land use activities and their cumulative impacts. This course is not eligible for Credit/D/Fail grading. Equivalency: LWS 515	In Person Learning	Thu	4:30 p.m. - 5:30 p.m.
SOIL_V 516-001	SOIL_V	516	001	Urban Watershed Management	W1	Urbanization impacts on water resources with a focus on rainwater management, water quality, point and non-point sources of pollution, drinking water and waste water, riparian buffer zones, cumulative effects, and application of beneficial management practices. This course is not eligible for Credit/D/Fail grading. Equivalency: LWS516	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
SOIL_V 517-001	SOIL_V	517	001	Land and Water Resource Evaluation	W1	Topics in land and water system evaluations and assessing resource development options; monitoring and modelling environmental systems. This course is not eligible for Credit/D/Fail grading. Equivalency: LWS 517.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SOIL_V 530-B_001	SOIL_V	530	B_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOIL_V 530-B_002	SOIL_V	530	B_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOIL_V 530-B_003	SOIL_V	530	B_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOIL_V 530-D_001	SOIL_V	530	D_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOIL_V 530-D_002	SOIL_V	530	D_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOIL_V 530-D_003	SOIL_V	530	D_003	Directed Studies	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SOIL_V 549-001	SOIL_V	549	001	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SOIL_V 549-002	SOIL_V	549	002	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

SOIL_V 549-003	SOIL_V	549		003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SOIL_V 649-001	SOIL_V	649		001	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
SOIL_V 649-002	SOIL_V	649		002	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
SOIL_V 649-003	SOIL_V	649		003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
SOWK_V 200-001	SOWK_V	200		001	Introduction to Social Welfare	W1	An introduction to the perspectives, concepts and theoretical foundations of social welfare, including an analysis of the institutional structures of social welfare in the modern state.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.
SOWK_V 201-001	SOWK_V	201		001	Introduction to Social Work Practice	W2	An introduction to the knowledge, skills and values of social work practice in its many forms, emphasizing different ways of understanding the context of social and personal problems. Prerequisite: SOWK200	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
SOWK_V 305-C_001	SOWK_V	305	C	C_001	Topics in Social Work Practice I	W1	Examinations of the foundation, knowledge and competencies underlying various topics in generalist social work practice. Enrolment is limited to students in the B.S.W. program	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
SOWK_V 305-G_001	SOWK_V	305	G	G_001	Topics in Social Work Practice I	W1	Examinations of the foundation, knowledge and competencies underlying various topics in generalist social work practice. Enrolment is limited to students in the B.S.W. program	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
SOWK_V 305-I_001	SOWK_V	305	I	I_001	Topics in Social Work Practice I	W2	Examinations of the foundation, knowledge and competencies underlying various topics in generalist social work practice. Enrolment is limited to students in the B.S.W. program	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
SOWK_V 310-A_001	SOWK_V	310	A	A_001	Interviewing Skills	W1-2	Communication theory and interviewing skills and their application to the Social Work interview. Enrolment is limited to students in the BSW program.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SOWK_V 310-A_002	SOWK_V	310	A	A_002	Interviewing Skills	W1-2	Communication theory and interviewing skills and their application to the Social Work interview. Enrolment is limited to students in the BSW program.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SOWK_V 310-A_003	SOWK_V	310	A	A_003	Interviewing Skills	W1-2	Communication theory and interviewing skills and their application to the Social Work interview. Enrolment is limited to students in the BSW program.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SOWK_V 315-001	SOWK_V	315		001	Practicum I	W1-2	A supervised practicum in an assigned social service, two days a week throughout the program year. Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading. Corequisite: SOWK 310.	In Person Learning	Arranged	Arranged
SOWK_V 315-002	SOWK_V	315		002	Practicum I	W1-2	A supervised practicum in an assigned social service, two days a week throughout the program year. Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading. Corequisite: SOWK 310.	In Person Learning	Arranged	Arranged
SOWK_V 315-003	SOWK_V	315		003	Practicum I	W1-2	A supervised practicum in an assigned social service, two days a week throughout the program year. Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading. Corequisite: SOWK 310.	In Person Learning	Arranged	Arranged
SOWK_V 316-001	SOWK_V	316		001	Integrative Seminar in Social Work Theory, Policy and Practice	W1-2	Integrates students' learning from field, practice, policy and theory courses for the purposes of professional development.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
SOWK_V 316-002	SOWK_V	316		002	Integrative Seminar in Social Work Theory, Policy and Practice	W1-2	Integrates students' learning from field, practice, policy and theory courses for the purposes of professional development.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
SOWK_V 316-003	SOWK_V	316		003	Integrative Seminar in Social Work Theory, Policy and Practice	W1-2	Integrates students' learning from field, practice, policy and theory courses for the purposes of professional development.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
SOWK_V 325-001	SOWK_V	325		001	Indigenous Peoples and Critical Social Work Analysis	W1	Contemporary social issues facing Indigenous peoples and communities examined in the context of the history of Settler-Canadian/Indigenous relations; the impact of Settler-Canadian institutions upon Indigenous peoples; implications for social policy and social work practice. Credit will be granted for only one of SOWK 325 or 425. Enrolment is limited to students in the BSW program.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
SOWK_V 325-002	SOWK_V	325		002	Indigenous Peoples and Critical Social Work Analysis	W1	Contemporary social issues facing Indigenous peoples and communities examined in the context of the history of Settler-Canadian/Indigenous relations; the impact of Settler-Canadian institutions upon Indigenous peoples; implications for social policy and social work practice. Credit will be granted for only one of SOWK 325 or 425. Enrolment is limited to students in the BSW program.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
SOWK_V 335-A_001	SOWK_V	335	A	A_001	Topics in Social Analysis for Social Work Practice	W2	Theoretical considerations of relevance to social work practice.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
SOWK_V 337-001	SOWK_V	337		001	Culture and Race in Social Work Practice	W2	Issues and problems inherent in practising social work in diverse cultural settings.	In Person Learning	Thu	10:00 a.m. - 1:00 p.m.

SOWK_V 400-001	SOWK_V	400	001	Canadian Social Policy	W1	Analysis of race, gender, class and culture as factors in the distribution and delivery of Canadian social benefits and social services.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.	
SOWK_V 405-001	SOWK_V	405	001	Social Work Practice II	W1	This course examines the principles of optimal social work process with individuals, small groups, families and larger collectivities.	In Person Learning	Wed	10:00 a.m. - 1:00 p.m.	
SOWK_V 415-001	SOWK_V	415	001	Practicum II	W2	A supervised practicum in an assigned social service, two days a week throughout the program year. Enrolment is limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
SOWK_V 415-002	SOWK_V	415	002	Practicum II	W2	A supervised practicum in an assigned social service, two days a week throughout the program year. Enrolment is limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
SOWK_V 415-003	SOWK_V	415	003	Practicum II	W2	A supervised practicum in an assigned social service, two days a week throughout the program year. Enrolment is limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
SOWK_V 416-001	SOWK_V	416	001	Advanced Integrative Seminar in Social Work Theory, Policy and Practice	W2	Development of professional judgement, evaluation, and self-evaluation in practice.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
SOWK_V 416-002	SOWK_V	416	002	Advanced Integrative Seminar in Social Work Theory, Policy and Practice	W2	Development of professional judgement, evaluation, and self-evaluation in practice.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
SOWK_V 416-003	SOWK_V	416	003	Advanced Integrative Seminar in Social Work Theory, Policy and Practice	W2	Development of professional judgement, evaluation, and self-evaluation in practice.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
SOWK_V 420-001	SOWK_V	420	001	Introduction to Social Work Research	W1	Theory and conduct of social research as applied to social welfare and social work practice. Development of social work research questions and design of studies. Enrolment is limited to students in the B.S.W. program, except by permission of the school. Credit will be granted for only one of SOWK 420 or 320. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
SOWK_V 430-A_002	SOWK_V	430	A	A_002	Special Studies in Social Work	W1-2	Lectures, seminars and/or individual tutorials to develop knowledge and skills in relation to a defined theory, policy or practice problem or client population. Enrolment is limited to students in the B.S.W. program, except by permission of the School.	In Person Learning	Arranged	Arranged
SOWK_V 440-B_001	SOWK_V	440	B	B_001	Integrative Seminars in Social Work	W2	A series of seminars offered during the final term of studies which address salient issues in social policy and social work practice and draw upon combined knowledge from social work and related disciplines.	Online Learning	Tue	6:00 p.m. - 9:00 p.m.
SOWK_V 440-C_001	SOWK_V	440	C	C_001	Integrative Seminars in Social Work	W1	A series of seminars offered during the final term of studies which address salient issues in social policy and social work practice and draw upon combined knowledge from social work and related disciplines.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.
SOWK_V 440-K_001	SOWK_V	440	K	K_001	Integrative Seminars in Social Work	W1	A series of seminars offered during the final term of studies which address salient issues in social policy and social work practice and draw upon combined knowledge from social work and related disciplines.	In Person Learning	Thu	6:00 p.m. - 9:00 p.m.
SOWK_V 440-Q_001	SOWK_V	440	Q	Q_001	Integrative Seminars in Social Work	W1	A series of seminars offered during the final term of studies which address salient issues in social policy and social work practice and draw upon combined knowledge from social work and related disciplines.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.
SOWK_V 441-001	SOWK_V	441	001	Social Context of Child Development	W1	The ways in which the familial, physical, and social environment effects the life structures, opportunities and outcomes of epigenetic developmental processes. Credit will be granted for only one of SOCI 441 or FMST 441. Equivalency: FMST 441	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.	
SOWK_V 442-001	SOWK_V	442	001	Policy and Practice in Child Welfare	W1	Covers the statutory bases and practices associated with the continuum of child welfare services from prevention through permanency planning.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.	
SOWK_V 450-99C	SOWK_V	450	99C	Social Work Practice in Community Mental Health	W2	Online course providing overview of social work services to persons with a mental illness. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in SOWK.	Online Learning	Arranged	Arranged	
SOWK_V 521-001	SOWK_V	521	001	Social Work Practice in Addictions	W2	This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue	6:00 p.m. - 9:00 p.m.	
SOWK_V 525-001	SOWK_V	525	001	Advanced Social Work Practice: Mental Health	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 1:00 p.m.	
SOWK_V 526-A_001	SOWK_V	526	A	A_001	Social Work Practice with Individuals and Couples	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 1:00 p.m.
SOWK_V 528-A_001	SOWK_V	528	A	A_001	Social work Practice with Groups	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:30 p.m. - 8:30 p.m.
SOWK_V 529-A_001	SOWK_V	529	A	A_001	Communities and Social Development: Debates, Approaches and Fields of Practice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	6:00 p.m. - 9:00 p.m.

SOWK_V 531-001	SOWK_V	531	001	Social Work Practice in the Field of Aging	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
SOWK_V 532-A_001	SOWK_V	532	A	A_001	Social Work Practice with the Family	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
SOWK_V 549-A_001	SOWK_V	549	A	A_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SOWK_V 550-001	SOWK_V	550	001	Social Work and Social Justice	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.	
SOWK_V 551-001	SOWK_V	551	001	Health and Social Care Praxis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
SOWK_V 551-002	SOWK_V	551	002	Health and Social Care Praxis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:00 a.m. - 1:00 p.m.	
SOWK_V 553-C_001	SOWK_V	553	C	C_001	Quantitative Methods in Social Work Research	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
SOWK_V 554-C_001	SOWK_V	554	C	C_001	Qualitative Methods in Social Work Research	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
SOWK_V 554-C_002	SOWK_V	554	C	C_002	Qualitative Methods in Social Work Research	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
SOWK_V 559-001	SOWK_V	559	001	Advanced Integrative Seminar	W1-2	Advanced development of professional judgment, critical reflection, and integration of theory, practice, research, policy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
SOWK_V 559-002	SOWK_V	559	002	Advanced Integrative Seminar	W1-2	Advanced development of professional judgment, critical reflection, and integration of theory, practice, research, policy. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
SOWK_V 560-C_001	SOWK_V	560	C	C_001	Directed Field Studies in Social Work II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SOWK_V 560-C_002	SOWK_V	560	C	C_002	Directed Field Studies in Social Work II	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SOWK_V 570-B_001	SOWK_V	570	B	B_001	Directed Studies in Social Work	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
SOWK_V 570-D_001	SOWK_V	570	D	D_001	Directed Studies in Social Work	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.
SOWK_V 601-001	SOWK_V	601	001	Social Work Doctoral Seminar	W1-2	Critical examination of research, teaching, proposal writing and publication. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	5:00 p.m. - 8:00 p.m.	
SOWK_V 621-001	SOWK_V	621	001	Social Theory, Ideology and Ethics	W1	Critical analysis of major social theories, differentiating competing approaches to understanding human behaviour; social theory, social ideology, and social ethics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	10:00 a.m. - 1:00 p.m.	
SOWK_V 654-001	SOWK_V	654	001	Advanced Qualitative Inquiry	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
SOWK_V 699-001	SOWK_V	699	001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
SOWK_V 699-002	SOWK_V	699	002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged	
SOWK_V 699-003	SOWK_V	699	003	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged	
SPAN_V 101-101	SPAN_V	101	101	Beginners' Spanish I	W1	Fundamentals of the Spanish language. Communicate with basic vocabulary in common tasks and situations related to present and future events. Aligned with CEFR level A1 objectives. Credit will be granted for either SPAN 103 or both SPAN 101, SPAN 102.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.	
SPAN_V 101-102	SPAN_V	101	102	Beginners' Spanish I	W1	Fundamentals of the Spanish language. Communicate with basic vocabulary in common tasks and situations related to present and future events. Aligned with CEFR level A1 objectives. Credit will be granted for either SPAN 103 or both SPAN 101, SPAN 102.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.	



SPAN_V 201-101	SPAN_V	201	101	Elementary Spanish I	W1	Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
SPAN_V 201-102	SPAN_V	201	102	Elementary Spanish I	W1	Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SPAN_V 201-103	SPAN_V	201	103	Elementary Spanish I	W1	Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
SPAN_V 201-104	SPAN_V	201	104	Elementary Spanish I	W1	Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.	Hybrid Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
SPAN_V 201-105	SPAN_V	201	105	Elementary Spanish I	W1	Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
SPAN_V 201-106	SPAN_V	201	106	Elementary Spanish I	W1	Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.	In Person Learning	Arranged	Arranged
SPAN_V 201-W01	SPAN_V	201	W01	Elementary Spanish I	W1	Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.	In Person Learning	Arranged	Arranged
SPAN_V 202-201	SPAN_V	202	201	Elementary Spanish II	W2	Expansion of fundamental notions and presentation of more elaborate structures in a variety of tenses and modes. Communicate to explore Hispanic culture and to hypothesize about present and past situations. Aligned with CEFR level A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisite: SPAN 201.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
SPAN_V 202-202	SPAN_V	202	202	Elementary Spanish II	W2	Expansion of fundamental notions and presentation of more elaborate structures in a variety of tenses and modes. Communicate to explore Hispanic culture and to hypothesize about present and past situations. Aligned with CEFR level A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisite: SPAN 201.	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
SPAN_V 202-203	SPAN_V	202	203	Elementary Spanish II	W2	Expansion of fundamental notions and presentation of more elaborate structures in a variety of tenses and modes. Communicate to explore Hispanic culture and to hypothesize about present and past situations. Aligned with CEFR level A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisite: SPAN 201.	Hybrid Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SPAN_V 202-204	SPAN_V	202	204	Elementary Spanish II	W2	Expansion of fundamental notions and presentation of more elaborate structures in a variety of tenses and modes. Communicate to explore Hispanic culture and to hypothesize about present and past situations. Aligned with CEFR level A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisite: SPAN 201.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SPAN_V 202-W02	SPAN_V	202	W02	Elementary Spanish II	W2	Expansion of fundamental notions and presentation of more elaborate structures in a variety of tenses and modes. Communicate to explore Hispanic culture and to hypothesize about present and past situations. Aligned with CEFR level A2 objectives. Credit will be granted for either SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisite: SPAN 201.	In Person Learning	Arranged	Arranged
SPAN_V 203-201	SPAN_V	203	201	Intensive Elementary Spanish	W2	Continuation of SPAN 103. Aligned with CEFR level A2 objectives. Credits will be granted for SPAN 203 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 103, SPAN 102, or placement test for native or near-native speakers of other Romance Languages.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SPAN_V 206-101	SPAN_V	206	101	Conversational Spanish I	W1	Emphasizes communication skills through discussion, debate, and presentations; developing oral fluency and listening comprehension, through discussion of written texts and films. May include experiential learning projects involving native speakers from the Hispanic community. Prerequisite: One of BC High School Spanish Grade 12, SPAN 202, or SPAN 203.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
SPAN_V 221-101	SPAN_V	221	101	Introduction to Hispanic Literature	W1	Major texts, authors, periods, and genres of Hispanic literature; key concepts, terminology, and practices of literary analysis that serve as a foundation for higher-level Spanish literature courses. Prerequisite: One of BC High School Spanish Grade 12, SPAN 202, SPAN 203, or successful completion of language placement exam or an assessment interview.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
SPAN_V 221-W01	SPAN_V	221	W01	Introduction to Hispanic Literature	W1	Major texts, authors, periods, and genres of Hispanic literature; key concepts, terminology, and practices of literary analysis that serve as a foundation for higher-level Spanish literature courses. Prerequisite: One of BC High School Spanish Grade 12, SPAN 202, SPAN 203, or successful completion of language placement exam or an assessment interview.	In Person Learning	Arranged	Arranged
SPAN_V 222-202	SPAN_V	222	202	Introduction to Hispanic Culture	W2	Media, figures, periods, and genres of Hispanic culture; key concepts, theories, and practices of cultural analysis that serve as a foundation for higher-level Spanish culture courses. Prerequisite: One of BC High School Spanish Grade 12, SPAN 202, SPAN 203 or successful completion of language placement exam or an assessment interview.	In Person Learning	Wed Fri	2:00 p.m. - 3:30 p.m.
SPAN_V 280-101	SPAN_V	280	101	Revolution! (in English)	W1	Concepts, theories, and practice of protest, revolt, and revolution in the Hispanic world, highlighting the intersection of politics and culture through novels, poetry, letters, diaries, and/or historical accounts of specific revolutionary uprisings. Credit will be granted for only one of SPAN 280 or RMST 280. Equivalency: RMST 280.	In Person Learning	Arranged	Arranged
SPAN_V 280-W01	SPAN_V	280	W01	Revolution! (in English)	W1	Concepts, theories, and practice of protest, revolt, and revolution in the Hispanic world, highlighting the intersection of politics and culture through novels, poetry, letters, diaries, and/or historical accounts of specific revolutionary uprisings. Credit will be granted for only one of SPAN 280 or RMST 280. Equivalency: RMST 280.	In Person Learning	Arranged	Arranged

SPAN_V 301-101	SPAN_V	301	101	Intermediate Spanish I	W1	Complex grammatical structures in context to enhance proficiency. Explores relevant cultural topics through reading, writing, and discussion. Aligned with CEFR level B1 objectives. Prerequisite: One of BC High School Spanish Grade 12, SPAN 202, SPAN 203, SPAN 206, SPAN 207 or successful completion of language placement exam or an assessment interview.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
SPAN_V 301-102	SPAN_V	301	102	Intermediate Spanish I	W1	Complex grammatical structures in context to enhance proficiency. Explores relevant cultural topics through reading, writing, and discussion. Aligned with CEFR level B1 objectives. Prerequisite: One of BC High School Spanish Grade 12, SPAN 202, SPAN 203, SPAN 206, SPAN 207 or successful completion of language placement exam or an assessment interview.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
SPAN_V 301-W01	SPAN_V	301	W01	Intermediate Spanish I	W1	Complex grammatical structures in context to enhance proficiency. Explores relevant cultural topics through reading, writing, and discussion. Aligned with CEFR level B1 objectives. Prerequisite: One of BC High School Spanish Grade 12, SPAN 202, SPAN 203, SPAN 206, SPAN 207 or successful completion of language placement exam or an assessment interview.	In Person Learning	Arranged	Arranged
SPAN_V 302-201	SPAN_V	302	201	Intermediate Spanish II	W2	Expansion of and reflection on the use of complex grammatical structures in context to broaden lexical repertoire. Enhances proficiency through reading, writing, and discussion of relevant cultural topics. Aligned with CEFR level B1 objectives. Prerequisite: SPAN 301 or successful completion of language placement exam or an assessment interview.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
SPAN_V 302-W02	SPAN_V	302	W02	Intermediate Spanish II	W2	Expansion of and reflection on the use of complex grammatical structures in context to broaden lexical repertoire. Enhances proficiency through reading, writing, and discussion of relevant cultural topics. Aligned with CEFR level B1 objectives. Prerequisite: SPAN 301 or successful completion of language placement exam or an assessment interview.	In Person Learning	Arranged	Arranged
SPAN_V 308-201	SPAN_V	308	201	Spanish for Business	W2	Language of commerce, finance, marketing, and economics. Competence in business practices of the Hispanic world. Prerequisite: One of SPAN 206, 207, 301, 302 or successful completion of language placement exam or an assessment interview.	In Person Learning	Arranged	Arranged
SPAN_V 321-101	SPAN_V	321	101	Tradition and Diversity in Spanish History and Culture	W1	Conservation and progress on the Iberian Peninsula, from the Middle Ages to the present. Includes the first modern European state and its diverse cultures. Prerequisite: One of SPAN 202, SPAN 203 or successful completion of language placement exam or an assessment interview.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
SPAN_V 357-101	SPAN_V	357	101	The Golden Age of Peninsular Literature and Culture	W1	Tradition, faith, conflict, prosperity, and decadence in literature and everyday life from the Middle Ages to 1700. Recommended pre-requisites: SPAN 221; and SPAN 301 or equivalent expertise in written and spoken Spanish.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SPAN_V 358-201	SPAN_V	358	201	Divergent Visions: Peninsular Literature and Culture since 1700	W2	Modern Spanish literature and culture, from Empire to the European Union. Includes Romanticism, Modernism, Republicanism, and Separatism. Recommended pre-requisites: SPAN 221; and SPAN 301 or equivalent expertise in written and spoken Spanish.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
SPAN_V 364-101	SPAN_V	364	101	Colonial Encounters in Spanish-American Literature and Culture	W1	Spanish colonialism in the Americas from the Conquest to the 1820's and the dawn of Independence. Includes coloniality, hybridity, subalternity, and autonomy. Recommended pre-requisites: SPAN 221; and SPAN 301 or equivalent expertise in written and spoken Spanish.	In Person Learning	Wed Fri	11:00 a.m. - 12:30 p.m.
SPAN_V 365-201	SPAN_V	365	201	Modern Magics: Spanish-American Literature and Culture since the 1820s	W2	Literary engagements with modernity in the Spanish Americas, from the 1820's to the present. Includes civilization, progress, politicization, and violence. Recommended pre-requisites: SPAN 221; and SPAN 301 or equivalent expertise in written and spoken Spanish.	In Person Learning	Wed Fri	9:30 a.m. - 11:00 a.m.
SPAN_V 401-101	SPAN_V	401	101	Upper Intermediate Spanish I	W1	Strengthening fluency and accuracy in spoken and written communication. Emphasis on mediation, interpretation, and metalinguistic competencies through translation and comparative stylistics. Aligned with CEFR level B2 objectives. Recommended pre-requisites: SPAN 302 or equivalent expertise in written and spoken Spanish.	In Person Learning	Wed Fri	3:30 p.m. - 5:00 p.m.
SPAN_V 403-201	SPAN_V	403	201	History of the Spanish Language	W2	Major features of the development of the Spanish language, from its origins to the present. Includes the history of Spanish phonetics, phonology, morphology, syntax, semantics, and dialectology. Recommended pre-requisites: SPAN 302 or equivalent expertise in written and spoken Spanish.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SPAN_V 404-A_101	SPAN_V	404	A	A_101	W1	From World to Screen: Topics in Hispanic Cinema	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
SPAN_V 490-C_201	SPAN_V	490	C	C_201	W2	Peoples and Nations: Topics in Twentieth- and Twenty-First Century Spanish-American Culture	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
SPAN_V 495-B_201	SPAN_V	495	B	B_201	W2	Research Intensive Seminar in Hispanic Literature and Culture	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
SPAN_V 499-101	SPAN_V	499	101	Honours Essay	W1	Theories and methodologies of the discipline. Consult the Department for this year's offering. Recommended pre-requisites: SPAN 221; and SPAN 301 or equivalent expertise in written and spoken Spanish.	In Person Learning	Arranged	Arranged
SPAN_V 499-201	SPAN_V	499	201	Honours Essay	W2		In Person Learning	Arranged	Arranged
SPAN_V 501-B_201	SPAN_V	501	B	B_201	W2	Literary and Cultural Theory	In Person Learning	Arranged	Arranged
SPAN_V 502-B_201	SPAN_V	502	B	B_201	W2	Gender Representations in Hispanic Literatures and Cultures	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.
SPAN_V 504-C_101	SPAN_V	504	C	C_101	W1	Hispanic Cinema	In Person Learning	Tue	3:00 p.m. - 6:00 p.m.

SPAN_V 504-C_201	SPAN_V	504	C	C_201	Hispanic Cinema	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPAN_V 505-B_201	SPAN_V	505	B	B_201	Transatlantic Hispanic Literatures and Cultures	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
SPAN_V 549-001	SPAN_V	549		001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPAN_V 549-101	SPAN_V	549		101	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPAN_V 549-201	SPAN_V	549		201	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPAN_V 590-A_101	SPAN_V	590	A	A_101	Contemporary Latin-American Literatures and Cultures	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 6:00 p.m.
SPAN_V 591-101	SPAN_V	591		101	Proseminar I: Research Skills and Scholarly Practices	W1	Credit will only be granted for only one of SPAN 591 or FREN 591. This course is not eligible for Credit/D/Fail grading. Equivalency: FREN 591.	In Person Learning	Wed (Alternate weeks)	3:00 p.m. - 6:00 p.m.
SPAN_V 592-201	SPAN_V	592		201	Proseminar II: Literary and Cultural Theory	W2	Credit will only be granted for only one of SPAN 592 or FREN 592. This course is not eligible for Credit/D/Fail grading. Prerequisite: SPAN 591. Equivalency: FREN 592.	In Person Learning	Wed (Alternate weeks)	3:00 p.m. - 6:00 p.m.
SPAN_V 649-001	SPAN_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
SPAN_V 649-101	SPAN_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
SPAN_V 649-201	SPAN_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
SPE_V 502-101	SPE_V	502		101	Sustainable Bioproducts Processing	W1-2	Properties and characterization of macromolecules including rheology. Polymer processing and application to green products development including from lignocellulosic sources. Circular economy driven processing. Biomimetics engineering. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPE_V 503-101	SPE_V	503		101	Sustainable Bioenergy and Biorefinery	W1	Understanding technology of deriving biofuels and chemical feedstocks from forest biomass. Relating chemistry of biomass for production of liquid, solid and gaseous fuels. Processing options for value-added chemicals. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SPE_V 505-101	SPE_V	505		101	Technology Commercialization for the Manufacturing Industries	W1	Creation and leadership of new ventures for scale-up and commercialization of manufacturing processes, with a special emphasis on the chemical and ancillary industries. Includes assessment of manufacturing processes; techno-economic analyses; scaling up and de-risking processes; intellectual property; market penetration that are specific to the manufacturing sector. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	11:00 a.m. - 12:30 p.m.
SPHA_V 501-001	SPHA_V	501		001	Basic Finance	W2	Fundamental concepts of asset pricing and corporate finance. This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 502-001	SPHA_V	502		001	Managerial Accounting	W2	Development and use of accounting information for management planning and control, and the development of cost information for financial reports. Same as BAAC 550; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 510-001	SPHA_V	510		001	Canadian Health Policy and the Healthcare System	W1	Analysis of topical Canadian health policy issues including an historical overview of the health care system, health care funding, public / private financing, health care personnel and pharmaceutical policy challenges. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 511-002	SPHA_V	511		002	Government, Business and Health Care Policy	W2	This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 512-002	SPHA_V	512		002	Indigenous Health and Cultural Safety	W2	Core concepts of Indigenous-specific racism and human rights, cultural safety and how this relates to the practice of health administrators. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 521-002	SPHA_V	521		002	Organizational Behavior	W2	The effects of individual and group behaviour on organizational processes and outcomes. The organization as an actor and how it behaves in different types of environments. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 531-001	SPHA_V	531		001	Economic Evaluation	W1	Maximizing health benefits from health care budgets. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 532-002	SPHA_V	532		002	Health Economics	W2	Economic strengths and weaknesses of current arrangements, and the prospects and objectives of various proposals for reform. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 9:00 p.m.

SPHA_V 533-002	SPHA_V	533	002	Health Care Priority Setting	W2	Application of priority setting and resource allocation methods to improve health from the perspective of the policy maker, health professional, and patient. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 542-002	SPHA_V	542	002	Operations and Logistics	W1	The application of management tools and principles to production and allocation problems. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 543-001	SPHA_V	543	001	Information Technology for Management	W1	The role of IT in health care management, the importance of effective IT in a health care setting, and the strategic uses of IT. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 551-002	SPHA_V	551	002	Design and Measurement 1	W2	Basic concepts and methods in Epidemiology. This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 553-001	SPHA_V	553	001	Program Planning and Evaluation	W1	Basic concepts and principles underlying program planning and evaluation in health services. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 554-002	SPHA_V	554	002	Application of Statistics in Management	W1	Data analysis and statistical inference. Applications in assessment of the legitimacy and significance of reports. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 5:00 p.m.	
SPHA_V 555-002	SPHA_V	555	002	Biostatistics	W2	Data collection, numeric and graphic summarization, and elementary statistical analysis. Examples primarily from health sciences. This course is not eligible for Credit/D/Fail grading.	Online Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 556-001	SPHA_V	556	001	Social Determinants of Health	W1	Foundations of population health. An overview of research on determinants of health, with an emphasis on the social determinants of health. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 562-002	SPHA_V	562	002	Health Care Law	W2	This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 563-002	SPHA_V	563	002	Ethics and Ethical Decision Making in Health Care	W2	Ethical dilemmas in the health care setting. Understanding how Ethical features of the system may contribute to or perpetuate some of these problems. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	3:00 p.m. - 9:00 p.m.	
SPHA_V 580-B_001	SPHA_V	580	B	B_001	Foundations in Health Leadership	W1	Current and emerging trends and issues. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	3:00 p.m. - 9:00 p.m.
SPHA_V 590-A_001	SPHA_V	590	A	A_001	Research Project	W1	Completion of a bounded project within a health agency and under individual faculty supervision. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SPHA_V 590-A_002	SPHA_V	590	A	A_002	Research Project	W2	Completion of a bounded project within a health agency and under individual faculty supervision. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SPHA_V 590-A_003	SPHA_V	590	A	A_003	Research Project	W1-2	Completion of a bounded project within a health agency and under individual faculty supervision. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SPPH_V 300-WB2	SPPH_V	300	WB2	Working in Global Health	W2	Planning/preparing for work in global health, with attention to health inequities and determinants internationally and domestically, the pursuit of partnerships to address this, power imbalances and ethical principles for carrying out this work. Health Science background not essential.	In Person Learning	Tue	1:00 p.m. - 4:00 p.m.	
SPPH_V 301-001	SPPH_V	301	001	Understanding the Sociocultural Determinants of the Health of Populations	W1	The idea of "population health," and the implementation and evaluation of programs or policies to improve health. Open to all students. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
SPPH_V 301-002	SPPH_V	301	002	Understanding the Sociocultural Determinants of the Health of Populations	W2	The idea of "population health," and the implementation and evaluation of programs or policies to improve health. Open to all students. [3-0-0]	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
SPPH_V 302-WB1	SPPH_V	302	WB1	Topics in Health Informatics for Health/Life Sciences Students	W1	Basic literacy in health informatics. Innovative approaches to healthcare implementation, access to care, and data utilization.	In Person Learning	Thu (Alternate weeks)	5:00 p.m. - 8:00 p.m.	
SPPH_V 303-WB1	SPPH_V	303	WB1	Environmental Impacts on Human Health	W1	Harmful environmental exposures in water, air, food; aspects of environment that are beneficial for health; environmental justice; emerging environmental health threats; how epidemiology and risk assessment inform public health policy and practice.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.	
SPPH_V 304-WB1	SPPH_V	304	WB1	Canadian Health Care Policy	W1	Features of the Canadian health care system, stages in the evolution of Medicare, and how institutions, interests, and ideas shape health care policies.	In Person Learning	Tue	9:00 a.m. - 10:30 a.m.	
SPPH_V 381-A_002	SPPH_V	381	A	A_002	Selected Topics	W2	By seminar and directed readings, certain topics of current interest are explored in depth.	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
SPPH_V 381-B_001	SPPH_V	381	B	B_001	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth.	In Person Learning	Thu	11:00 a.m. - 2:00 p.m.
SPPH_V 381-C_WB1	SPPH_V	381	C	C_WB1	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth.	In Person Learning	Arranged	Arranged

SPPH_V 381-D_BL1	SPPH_V	381	D	D_BL1	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth.	In Person Learning	Arranged	Arranged
SPPH_V 381-D_WB1	SPPH_V	381	D	D_WB1	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth.	Hybrid Learning	Arranged	Arranged
SPPH_V 381-E_WB2	SPPH_V	381	E	E_WB2	Selected Topics	W2	By seminar and directed readings, certain topics of current interest are explored in depth.	Hybrid Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SPPH_V 400-001	SPPH_V	400		001	Statistics for Health Research	W1	Planned collection, numeric and graphic summarization, and elementary statistical analysis of data. Examples primarily from health sciences illustrate standard techniques for parametric and non-parametric hypothesis testing; regression and correlation; contingency tables. Also randomization, blindfolding and other specifically biomedical topics in statistics. Class size may be limited. [3-0]	In Person Learning	Arranged	Arranged
SPPH_V 400-WB1	SPPH_V	400		WB1	Statistics for Health Research	W1	Planned collection, numeric and graphic summarization, and elementary statistical analysis of data. Examples primarily from health sciences illustrate standard techniques for parametric and non-parametric hypothesis testing; regression and correlation; contingency tables. Also randomization, blindfolding and other specifically biomedical topics in statistics. Class size may be limited. [3-0]	Hybrid Learning	Arranged	Arranged
SPPH_V 400-WB3	SPPH_V	400		WB3	Statistics for Health Research	W1	Planned collection, numeric and graphic summarization, and elementary statistical analysis of data. Examples primarily from health sciences illustrate standard techniques for parametric and non-parametric hypothesis testing; regression and correlation; contingency tables. Also randomization, blindfolding and other specifically biomedical topics in statistics. Class size may be limited. [3-0]	Hybrid Learning	Arranged	Arranged
SPPH_V 401-001	SPPH_V	401		001	Basic Epidemiology for Infection Control	W1	Epidemiology, study, design and analysis, and outbreak investigation as it applies to institutional infection control. Equivalency: PATH 477	Online Learning	Arranged	Arranged
SPPH_V 404-001	SPPH_V	404		001	Indigenous Health: Historical Impacts and Contemporary Approaches	W1	This course covers an epistemological approach that considers the social determinants of health and Indigenous spiritual-environmental and cultural perspectives and approaches to health and wellness.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
SPPH_V 410-WB2	SPPH_V	410		WB2	Improving Public Health: An Interprofessional Approach to Designing and Implementing Effective Interventions	W2	Improving public health by developing the skills to design and deliver pragmatic, effective health behavior change interventions.	Hybrid Learning	Thu	2:00 p.m. - 5:00 p.m.
SPPH_V 481-C_002	SPPH_V	481	C	C_002	Special Topics in Population and Public Health	W2	Selected topics will vary. Multiple versions may be taken. This course takes an interprofessional approach and population/public health perspective in addressing current issues in healthcare and health-related fields.	In Person Learning	Wed	4:00 p.m. - 7:00 p.m.
SPPH_V 481-D_001	SPPH_V	481	D	D_001	Special Topics in Population and Public Health	W1	Selected topics will vary. Multiple versions may be taken. This course takes an interprofessional approach and population/public health perspective in addressing current issues in healthcare and health-related fields.	In Person Learning	Arranged	Arranged
SPPH_V 500-007	SPPH_V	500		007	Analytical Methods in Epidemiological Research	W2	Basic epidemiological designs as a framework for commonly used biostatistical techniques such as the Mantel-Haenszel, chi-squared, linear and logistic regression, and survival analysis. Computer packages will be available for computation of assignments. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of SPPH 400, SPPH 502 or (b) all of SPPH 521, SPPH 502 or (c) all of SPPH 567, SPPH 502.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SPPH_V 500-WB2	SPPH_V	500		WB2	Analytical Methods in Epidemiological Research	W2	Basic epidemiological designs as a framework for commonly used biostatistical techniques such as the Mantel-Haenszel, chi-squared, linear and logistic regression, and survival analysis. Computer packages will be available for computation of assignments. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of SPPH 400, SPPH 502 or (b) all of SPPH 521, SPPH 502 or (c) all of SPPH 567, SPPH 502.	Hybrid Learning	Thu (Alternate weeks)	9:30 a.m. - 12:30 p.m.
SPPH_V 500-WB4	SPPH_V	500		WB4	Analytical Methods in Epidemiological Research	W2	Basic epidemiological designs as a framework for commonly used biostatistical techniques such as the Mantel-Haenszel, chi-squared, linear and logistic regression, and survival analysis. Computer packages will be available for computation of assignments. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of SPPH 400, SPPH 502 or (b) all of SPPH 521, SPPH 502 or (c) all of SPPH 567, SPPH 502.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
SPPH_V 501-002	SPPH_V	501		002	Analysis of Longitudinal Data from Epidemiological Studies	W2	To explore and compare methods of analyzing continuous and categorical longitudinal data. The issues of missing data and errors in measurement/misclassification will be covered in depth. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of SPPH 400, SPPH 500, SPPH 502 or (b) all of SPPH 521, SPPH 500, SPPH 502 or (c) all of SPPH 500, SPPH 502, SPPH 567.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
SPPH_V 502-001	SPPH_V	502		001	Epidemiological Methods 1	W1	Sources and uses of epidemiologic data for health services planning and administration including methods of data collection and study design. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 502-WB1	SPPH_V	502		WB1	Epidemiological Methods 1	W1	Sources and uses of epidemiologic data for health services planning and administration including methods of data collection and study design. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri	1:30 p.m. - 5:00 p.m.
SPPH_V 502-WB3	SPPH_V	502		WB3	Epidemiological Methods 1	W1	Sources and uses of epidemiologic data for health services planning and administration including methods of data collection and study design. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Tue (Alternate weeks)	2:30 p.m. - 5:30 p.m.
SPPH_V 503-WB2	SPPH_V	503		WB2	Epidemiological Methods 2	W2	Critical thinking in epidemiology; principles and methods of study design; context for epidemiological investigations of human health. Prerequisite: SPPH 502 and one of SPPH 400 or SPPH 521.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
SPPH_V 504-WB2	SPPH_V	504		WB2	Application of Epidemiological Methods	W2	This second level course will teach research trainees to apply methods taught in prior courses towards the development of a fundable research protocol and the analysis and interpretation of real epidemiologic data. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and all of SPPH 500, SPPH 502, SPPH 503.	Hybrid Learning	Mon	2:00 p.m. - 5:00 p.m.
SPPH_V 506-WB2	SPPH_V	506		WB2	Quantitative Research Methods	W2	Major quantitative research designs, measurement reliability and validity, common data sources used, internal and external validity, research proposals, and peer review. Credit will be granted for only one of SPPH 506 or SPPH 548. This course is not eligible for Credit/D/Fail grading.	Multi-access Learning	Thu	10:30 a.m. - 1:30 p.m.

SPPH_V 507-004	SPPH_V	507	004	M.Sc. Research Seminar	W1	SPPH 507 in conjunction with SPPH 607 is a required course for students in the M.Sc. program. Students present and discuss their research and other topics of interest. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 507-WB1	SPPH_V	507	WB1	M.Sc. Research Seminar	W1	SPPH 507 in conjunction with SPPH 607 is a required course for students in the M.Sc. program. Students present and discuss their research and other topics of interest. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri (Alternate weeks)	9:00 a.m. - 11:30 a.m.
SPPH_V 508-001	SPPH_V	508	001	M.P.H. Practicum	W1	Applied epidemiology and biostatistics in a field setting. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 508-002	SPPH_V	508	002	M.P.H. Practicum	W2	Applied epidemiology and biostatistics in a field setting. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 508-003	SPPH_V	508	003	M.P.H. Practicum	W1-2	Applied epidemiology and biostatistics in a field setting. Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 510-002	SPPH_V	510	002	Survey Methods in Health Measurement	W2	Concepts and techniques of measurement in epidemiological research. Topics covered include validity, reliability and misclassification, scale design and the construction of questionnaires and indices for both health outcomes and exposures. Prerequisite: One of SPPH 400, SPPH 521.	In Person Learning	Arranged	Arranged
SPPH_V 511-002	SPPH_V	511	002	Cancer Control and Epidemiology	W2	Collection and analysis of epidemiological data on cancer; genetic, occupational, and other risk factors; analytic techniques; cancer control, prevention, screening, early detection, and policy issues. This course is not eligible for Credit/D/Fail grading. Prerequisite: SPPH 502. or equivalent.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SPPH_V 512-002	SPPH_V	512	002	The Design and Analysis of Clinical Trials	W2	Ethical considerations, intention-to-treat versus efficacy trials, principles of sampling and exclusion, methods of allocation and techniques of randomization, parallel versus cross over design, monitoring treatment outcomes, adverse effects, stopping rules, analytic techniques and data interpretation, and logistical issues in the management of clinical trials. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of SPPH 502, SPPH 513.	In Person Learning	Tue	9:30 a.m. - 12:30 p.m.
SPPH_V 513-002	SPPH_V	513	002	Clinical Epidemiology	W2	Principles and methods of epidemiology are applied to clinical problems. Evaluation and design of laboratory and clinical tests and of therapeutic interventions. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
SPPH_V 514-002	SPPH_V	514	002	Decision Analysis in Health Care	W2	Methods and application of decision analysis to improve health from the perspective of the policy maker, health professional, and patient. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
SPPH_V 515-002	SPPH_V	515	002	Surveillance and Monitoring in Public Health	W2	Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
SPPH_V 516-001	SPPH_V	516	001	Methods for Systematic Reviews in Health Research	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
SPPH_V 519-WB2	SPPH_V	519	WB2	Qualitative Methods in Health Research Design	W2	Purposes, context, procedures, and relationships within qualitative health research and methodologies. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Thu (Alternate weeks)	2:00 p.m. - 5:00 p.m.
SPPH_V 520-002	SPPH_V	520	002	Control of Communicable Disease	W2	Epidemiology of viral, bacterial and parasitic infections with emphasis on the control of these infections in human populations. Immunization programs will be stressed. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
SPPH_V 521-WB1	SPPH_V	521	WB1	Statistics for Health Research	W1	Planned collection, numeric and graphic summarization, elementary statistical analysis of data. Examples from health sciences illustrate standard techniques for parametric and nonparametric hypothesis testing; regression and correlation; contingency tables. Also randomization, "blindfolding" and other specifically biomedical topics in statistics. Credit will be granted for only one of SPPH 400 or SPPH 521.	Hybrid Learning	Fri (Alternate weeks)	9:30 a.m. - 12:30 p.m.
SPPH_V 521-WB3	SPPH_V	521	WB3	Statistics for Health Research	W1	Planned collection, numeric and graphic summarization, elementary statistical analysis of data. Examples from health sciences illustrate standard techniques for parametric and nonparametric hypothesis testing; regression and correlation; contingency tables. Also randomization, "blindfolding" and other specifically biomedical topics in statistics. Credit will be granted for only one of SPPH 400 or SPPH 521.	In Person Learning	Tue/Thu	12:30 p.m. - 2:00 p.m.
SPPH_V 522-WB2	SPPH_V	522	WB2	Topics in Environmental Health	W2	Role of air, water, food and solid waste as sources of human health risks; global environmental health issues; sustainability. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon	9:00 a.m. - 12:00 p.m.
SPPH_V 523-002	SPPH_V	523	002	Global Health and Human Security	W2	Global threats to human health stemming from conflict, poverty, and environmental degradation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SPPH_V 526-002	SPPH_V	526	002	Leadership in Public Health	W2	Organizational structure; engaging others in an organization; inter-organizational networking; building coalitions; identification of opportunities to bring change to organizations through knowledge development, management, synthesis, and implementation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 526-003	SPPH_V	526	003	Leadership in Public Health	W1	Organizational structure; engaging others in an organization; inter-organizational networking; building coalitions; identification of opportunities to bring change to organizations through knowledge development, management, synthesis, and implementation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 526-004	SPPH_V	526	004	Leadership in Public Health	W2	Organizational structure; engaging others in an organization; inter-organizational networking; building coalitions; identification of opportunities to bring change to organizations through knowledge development, management, synthesis, and implementation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
SPPH_V 527-WB1	SPPH_V	527	WB1	Social Determinants of Health	W1	Foundational thinking giving rise to the concept of population health. Overview of the current state of research. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed (Alternate weeks)	9:00 a.m. - 12:00 p.m.

SPPH_V 527-WB2	SPPH_V	527	WB2	Social Determinants of Health	W2	Foundational thinking giving rise to the concept of population health. Overview of the current state of research. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed (Alternate weeks)	9:30 a.m. - 12:30 p.m.
SPPH_V 529-001	SPPH_V	529	001	Major Essay	W1	Required for all M.H.Sc. students. Pass/Fail.	In Person Learning	Arranged	Arranged
SPPH_V 529-002	SPPH_V	529	002	Major Essay	W2	Required for all M.H.Sc. students. Pass/Fail.	In Person Learning	Arranged	Arranged
SPPH_V 529-003	SPPH_V	529	003	Major Essay	W1-2	Required for all M.H.Sc. students. Pass/Fail.	In Person Learning	Arranged	Arranged
SPPH_V 532-002	SPPH_V	532	002	Environmental Health Risk Assessment and Communication	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 533-002	SPPH_V	533	002	Toxicology and Public Health	W2	Mechanism of action of commonly encountered occupational toxic agents; relevance of laboratory and epidemiological evidence. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
SPPH_V 535-001	SPPH_V	535	001	Principles of Occupational and Environmental Hygiene	W1	Scientific basis for the recognition, evaluation, and control of chemical, physical, and biological, exposures; standard setting; exposure monitoring methods. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:30 a.m. - 12:00 p.m.
SPPH_V 536-WB2	SPPH_V	536	WB2	Aboriginal People and Public Health: Ethics, Policy, and Practice	W2	Experience of colonization; Indian Act; the histories and intergenerational impact of the residential school, child-welfare systems; communicable disease prevention; the challenge of ethical public health practice; and traditional healing. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	4:00 p.m. - 7:00 p.m.
SPPH_V 537-001	SPPH_V	537	001	Perinatal Epidemiology	W1	Indicators of maternal/newborn well-being across population subgroups, changing trends in obstetrical intervention, perinatal morbidity, and the analysis of perinatal data. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502. Corequisite: SPPH 500 Equivalency: OBST 507	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
SPPH_V 538-002	SPPH_V	538	002	Application of Ethical Theories in the Practice of Public Health	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
SPPH_V 540-002	SPPH_V	540	002	Program Planning and Evaluation	W2	Examines the concept of evaluation in health services and how various methodological approaches can be used in evaluative studies. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
SPPH_V 541-001	SPPH_V	541	001	Economic Evaluation	W1	Economic evaluation of health service interventions and programs, with emphasis on methods and components of program costing. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Arranged	Arranged
SPPH_V 541-002	SPPH_V	541	002	Economic Evaluation	W2	Economic evaluation of health service interventions and programs, with emphasis on methods and components of program costing. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
SPPH_V 542-WB1	SPPH_V	542	WB1	Canadian Health Policy	W1	Analysis of the evolution and structure of the Canadian health care system. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Mon	9:00 a.m. - 10:30 a.m.
SPPH_V 545-001	SPPH_V	545	001	Community Health Promotion	W1	Practice and community-based (participatory) research related to health promotion, including its historical and philosophical roots. Application of social and behavioural theories to participatory research and the planning, implementation, and evaluation of community health promotion initiatives. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 546-001	SPPH_V	546	001	Introduction to Health Economics	W1	Broad understanding of the health system and health system change from an economics perspective, with a focus on delivery, organization, and financing of healthcare. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
SPPH_V 547-BL2	SPPH_V	547	BL2	Health Care Priority Setting	W2	Resource allocation, economics and ethics based approaches for decision making, uptake of evidence to inform resource use in health care. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 548-WB1	SPPH_V	548	WB1	Knowledge to Action in Population Health	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	1:00 p.m. - 4:00 p.m.
SPPH_V 550-WB1	SPPH_V	550	WB1	Public Health Approaches to Substance Use and Addictions	W1	Critical examination of strategies regarding addictive behaviours, substance use and related problems, in the context of a multi-disciplinary approach. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
SPPH_V 551-002	SPPH_V	551	002	Pharmacoepidemiology	W2	Principles and applications of pharmacoepidemiology. Practical skills in designing, conducting, and appraising studies of medications in large populations. Credit will be granted for only one of SPPH 551 or PHAR 561. Prerequisite: Previous coursework in statistics or biostatistics.	In Person Learning	Wed	1:00 p.m. - 4:00 p.m.
SPPH_V 552-WB1	SPPH_V	552	WB1	Science and Risk Communication for Public Health	W1	Theory and practice of risk communication in public health, basic principles underlying effective science communication with peers, the media, and the public. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Wed	1:00 p.m. - 4:00 p.m.
SPPH_V 552-WB2	SPPH_V	552	WB2	Science and Risk Communication for Public Health	W2	Theory and practice of risk communication in public health, basic principles underlying effective science communication with peers, the media, and the public. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

SPPH_V 553-001	SPPH_V	553	001	Foundations of Public Health Computing	W1	Data gathering, cleaning, analysis, and visualization to produce key results using statistical software. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 502.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
SPPH_V 562-002	SPPH_V	562	002	Chemical and Biological Hazard Measurement	W2	Industrial hygiene and environmental exposure monitoring, methods, and instrumentation, and theory. Laboratories demonstrate workplace sampling and analysis techniques. This course is not eligible for Credit/D/Fail grading. [2-3] Prerequisite: SPPH 535.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
SPPH_V 563-001	SPPH_V	563	001	Technical Aspects of Occupational Hygiene Hazard Controls	W1	Industrial ventilation, heating and air conditioning systems, respiratory protection, chemical protective clothing. This course is not eligible for Credit/D/Fail grading. Prerequisite: SPPH 535.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
SPPH_V 564-002	SPPH_V	564	002	Advanced Topics in Occupational and Environmental Health	W2	Recommended: SPPH 567 or an equivalent statistics or quantitative course is recommended. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of SPPH 502, SPPH 535. Corequisite: SPPH 522.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
SPPH_V 565-001	SPPH_V	565	001	Ergonomics	W1	Human factors in workplace design, anthropometry, work physiology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
SPPH_V 565-002	SPPH_V	565	002	Ergonomics	W2	Human factors in workplace design, anthropometry, work physiology. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
SPPH_V 566-001	SPPH_V	566	001	Occupational Hygiene Practice	W1	Application of occupational hygiene principles using field investigations, critical appraisal of results, and communication with labour and management. This course is not eligible for Credit/D/Fail grading. [2-3] Prerequisite: SPPH 562. Corequisite: SPPH 563.	In Person Learning	Mon	1:30 p.m. - 3:00 p.m.	
SPPH_V 567-002	SPPH_V	567	002	Quantitative Methods for the Assessment and Analysis of Exposure Data	W2	Determinants of exposure, sampling strategies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
SPPH_V 568-001	SPPH_V	568	001	Occupational Safety Programs and Systems	W1	Safety management; systems analysis; accident investigation; collection of accident data; fault trees; total loss control. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.	
SPPH_V 568-002	SPPH_V	568	002	Occupational Safety Programs and Systems	W2	Safety management; systems analysis; accident investigation; collection of accident data; fault trees; total loss control. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
SPPH_V 569-001	SPPH_V	569	001	Industrial and Environmental Acoustics and Vibration	W1	Fundamentals of acoustics and vibrations, physiologic effects, measurement, instrumentation, interpretation of data, industrial standards, and control. For students in Occupational and Environmental Hygiene; other graduate students may enrol with permission of the instructor. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.	
SPPH_V 570-003	SPPH_V	570	003	Current Issues in Public Health Practice	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 5:00 p.m.	
SPPH_V 580-A_001	SPPH_V	580	A	A_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 580-A_002	SPPH_V	580	A	A_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 580-B_001	SPPH_V	580	B	B_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 580-B_002	SPPH_V	580	B	B_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 580-C_001	SPPH_V	580	C	C_001	Directed Studies	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 580-C_002	SPPH_V	580	C	C_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 580-P_002	SPPH_V	580	P	P_002	Directed Studies	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 581-C_002	SPPH_V	581	C	C_002	Selected Topics	W2	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
SPPH_V 581-E_WB2	SPPH_V	581	E	E_WB2	Selected Topics	W2	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
SPPH_V 581-H_001	SPPH_V	581	H	H_001	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
SPPH_V 581-J_001	SPPH_V	581	J	J_001	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.

SPPH_V 581-X_002	SPPH_V	581	X	X_002	Selected Topics	W2	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 581-Y_BL1	SPPH_V	581	Y	Y_BL1	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 581-Y_WB1	SPPH_V	581	Y	Y_WB1	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 12:30 p.m.
SPPH_V 581-Z_002	SPPH_V	581	Z	Z_002	Selected Topics	W2	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
SPPH_V 598-001	SPPH_V	598		001	Occupational and Environmental Hygiene Project	W1	Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	11:00 a.m. - 12:30 p.m.
SPPH_V 598-002	SPPH_V	598		002	Occupational and Environmental Hygiene Project	W2	Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:30 p.m. - 2:00 p.m.
SPPH_V 599-001	SPPH_V	599		001	M.Sc. Thesis	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 599-002	SPPH_V	599		002	M.Sc. Thesis	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 599-003	SPPH_V	599		003	M.Sc. Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 604-001	SPPH_V	604		001	Application of Advanced Epidemiological Methods	W1	Statistical approaches for confounding, missingness, and complex surveys, the development of analysis plans, the analysis and interpretation of real-world epidemiologic data, and the communication of findings. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and all of SPPH 500, SPPH 502; and one of SPPH 503, SPPH 506, SPPH 519, SPPH 530.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
SPPH_V 604-T01	SPPH_V	604		T01	Application of Advanced Epidemiological Methods	W1	Statistical approaches for confounding, missingness, and complex surveys, the development of analysis plans, the analysis and interpretation of real-world epidemiologic data, and the communication of findings. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and all of SPPH 500, SPPH 502; and one of SPPH 503, SPPH 506, SPPH 519, SPPH 530.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
SPPH_V 607-004	SPPH_V	607		004	Ph.D. Research Seminar	W1	Required course in Ph.D. program. Topics of current interest will be presented and discussed by students and various faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 607-BL1	SPPH_V	607		BL1	Ph.D. Research Seminar	W1	Required course in Ph.D. program. Topics of current interest will be presented and discussed by students and various faculty. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SPPH_V 607-WB1	SPPH_V	607		WB1	Ph.D. Research Seminar	W1	Required course in Ph.D. program. Topics of current interest will be presented and discussed by students and various faculty. This course is not eligible for Credit/D/Fail grading.	Hybrid Learning	Fri (Alternate weeks)	9:00 a.m. - 11:30 a.m.
SPPH_V 621-001	SPPH_V	621		001	Approaches to Enquiry in Population and Public Health	W1	Research approaches in the area of population and public health; focus on developing research questions and the centrality of research questions in conducting research. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 6:00 p.m.
SPPH_V 681-A_001	SPPH_V	681	A	A_001	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
SPPH_V 681-A_T01	SPPH_V	681	A	A_T01	Selected Topics	W1	By seminar and directed readings, certain topics of current interest are explored in depth. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
SPPH_V 699-001	SPPH_V	699		001	Doctoral Dissertation	W1	Pass/Fail.	In Person Learning	Arranged	Arranged
SPPH_V 699-002	SPPH_V	699		002	Doctoral Dissertation	W2	Pass/Fail.	In Person Learning	Arranged	Arranged
SPPH_V 699-003	SPPH_V	699		003	Doctoral Dissertation	W1-2	Pass/Fail.	In Person Learning	Arranged	Arranged
STAT_V 200-101	STAT_V	200		101	Elementary Statistics for Applications	W1	Classical, nonparametric, and robust inferences about means, variances, and analysis of variance, using computers. Emphasis on problem formulation, assumptions, and interpretation. See the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-1-0] Prerequisite: One of any course on the MATH 100 credit exclusion list [ <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> ], MATH 190, SCIE 001.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.







STAT_V 200-L2N	STAT_V	200	L2N	Elementary Statistics for Applications	W2	Classical, nonparametric, and robust inferences about means, variances, and analysis of variance, using computers. Emphasis on problem formulation, assumptions, and interpretation. See the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-1-0] Prerequisite: One of any course on the MATH 100 credit exclusion list [ <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> ], MATH 190, SCIE 001.	In Person Learning	Arranged	Arranged
STAT_V 200-L2O	STAT_V	200	L2O	Elementary Statistics for Applications	W2	Classical, nonparametric, and robust inferences about means, variances, and analysis of variance, using computers. Emphasis on problem formulation, assumptions, and interpretation. See the Faculty of Science Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-1-0] Prerequisite: One of any course on the MATH 100 credit exclusion list [ <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> ], MATH 190, SCIE 001.	In Person Learning	Arranged	Arranged
STAT_V 201-201	STAT_V	201	201	Statistical Inference for Data Science	W2	Classical and simulation-based techniques for estimation and hypothesis testing, including inference for means and proportions. Emphasis on case studies and real data sets, as well as reproducible and transparent workflows when writing computer scripts for analysis and reports. [3-0-1] Prerequisite: DSCI 100.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.
STAT_V 201-202	STAT_V	201	202	Statistical Inference for Data Science	W1	Classical and simulation-based techniques for estimation and hypothesis testing, including inference for means and proportions. Emphasis on case studies and real data sets, as well as reproducible and transparent workflows when writing computer scripts for analysis and reports. [3-0-1] Prerequisite: DSCI 100.	In Person Learning	Mon Wed	4:00 p.m. - 5:30 p.m.
STAT_V 201-203	STAT_V	201	203	Statistical Inference for Data Science	W2	Classical and simulation-based techniques for estimation and hypothesis testing, including inference for means and proportions. Emphasis on case studies and real data sets, as well as reproducible and transparent workflows when writing computer scripts for analysis and reports. [3-0-1] Prerequisite: DSCI 100.	In Person Learning	Mon Wed	8:00 a.m. - 9:30 a.m.
STAT_V 203-103	STAT_V	203	103	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
STAT_V 203-T1A	STAT_V	203	T1A	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
STAT_V 203-T1B	STAT_V	203	T1B	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
STAT_V 203-T1C	STAT_V	203	T1C	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Arranged	Arranged
STAT_V 203-T1D	STAT_V	203	T1D	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
STAT_V 203-T1E	STAT_V	203	T1E	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
STAT_V 203-T1F	STAT_V	203	T1F	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
STAT_V 203-T1G	STAT_V	203	T1G	Statistical Methods	W1	Organizing, displaying and summarizing data. Inference estimation and testing for elementary probability models. Not for credit towards a B.Sc. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-1-0] Prerequisite: MATH 11. Or Pre-calculus 11.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
STAT_V 251-101	STAT_V	251	101	Elementary Statistics	W1	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
STAT_V 251-201	STAT_V	251	201	Elementary Statistics	W2	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Mon Wed Fri	8:00 a.m. - 9:00 a.m.
STAT_V 251-L1A	STAT_V	251	L1A	Elementary Statistics	W1	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Mon	12:00 p.m. - 1:00 p.m.
STAT_V 251-L1B	STAT_V	251	L1B	Elementary Statistics	W1	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Tue	8:00 a.m. - 9:00 a.m.
STAT_V 251-L1C	STAT_V	251	L1C	Elementary Statistics	W1	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Wed	12:00 p.m. - 1:00 p.m.
STAT_V 251-L1D	STAT_V	251	L1D	Elementary Statistics	W1	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
STAT_V 251-L1E	STAT_V	251	L1E	Elementary Statistics	W1	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Arranged	Arranged
STAT_V 251-L1F	STAT_V	251	L1F	Elementary Statistics	W1	Probability, discrete and continuous random variables, joint probability distributions, estimation, hypothesis testing, regression, analysis of variance, goodness of fit. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar.) [3-1-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.





STAT_V 301-T1A	STAT_V	301	T1A	Statistical Modelling for Data Science	W1	Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peaking, bandit, and variable selection algorithms) in case studies from different disciplines. Generative versus out-of-sample predictive models. Reproducible and transparent workflows for computer scripts and reports. [3-0-1] Prerequisite: STAT 201 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCIE 001.	In Person Learning	Thu	5:00 p.m. - 6:00 p.m.
STAT_V 301-T1B	STAT_V	301	T1B	Statistical Modelling for Data Science	W2	Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peaking, bandit, and variable selection algorithms) in case studies from different disciplines. Generative versus out-of-sample predictive models. Reproducible and transparent workflows for computer scripts and reports. [3-0-1] Prerequisite: STAT 201 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCIE 001.	In Person Learning	Tue	10:00 a.m. - 11:00 a.m.
STAT_V 302-101	STAT_V	302	101	Introduction to Probability	W1	Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-0-0] Prerequisite: One of MATH 200, MATH 226, MATH 217, MATH 253, MATH 254. Equivalency: MATH302	In Person Learning	Fri	10:30 a.m. - 12:00 p.m.
STAT_V 302-201	STAT_V	302	201	Introduction to Probability	W2	Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-0-0] Prerequisite: One of MATH 200, MATH 226, MATH 217, MATH 253, MATH 254. Equivalency: MATH302	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
STAT_V 302-202	STAT_V	302	202	Introduction to Probability	W2	Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.) [3-0-0] Prerequisite: One of MATH 200, MATH 226, MATH 217, MATH 253, MATH 254. Equivalency: MATH302	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.
STAT_V 305-101	STAT_V	305	101	Introduction to Statistical Inference	W1-2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
STAT_V 305-202	STAT_V	305	202	Introduction to Statistical Inference	W2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Mon Wed Fri	4:00 p.m. - 5:00 p.m.
STAT_V 305-L1A	STAT_V	305	L1A	Introduction to Statistical Inference	W1-2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Arranged	Arranged
STAT_V 305-L1B	STAT_V	305	L1B	Introduction to Statistical Inference	W1-2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
STAT_V 305-L1C	STAT_V	305	L1C	Introduction to Statistical Inference	W1-2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
STAT_V 305-L1D	STAT_V	305	L1D	Introduction to Statistical Inference	W1-2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Fri	2:00 p.m. - 3:00 p.m.
STAT_V 305-L2A	STAT_V	305	L2A	Introduction to Statistical Inference	W2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
STAT_V 305-L2B	STAT_V	305	L2B	Introduction to Statistical Inference	W2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
STAT_V 305-L2C	STAT_V	305	L2C	Introduction to Statistical Inference	W2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Arranged	Arranged

STAT_V 305-L2D	STAT_V	305	L2D	Introduction to Statistical Inference	W2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
STAT_V 305-L2E	STAT_V	305	L2E	Introduction to Statistical Inference	W2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
STAT_V 305-L2F	STAT_V	305	L2F	Introduction to Statistical Inference	W2	Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 203, BIOL 300, STAT 241, STAT 251, COMM 291, ECON 325, FRST 231, PSYC 218, PSYC 366 and one of MATH 302, STAT 302; or (b) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (a).	In Person Learning	Arranged	Arranged
STAT_V 306-101	STAT_V	306	101	Finding Relationships in Data	W1	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Mon Fri	10:30 a.m. - 12:00 p.m.
STAT_V 306-201	STAT_V	306	201	Finding Relationships in Data	W2	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
STAT_V 306-L1A	STAT_V	306	L1A	Finding Relationships in Data	W1	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Arranged	Arranged
STAT_V 306-L1B	STAT_V	306	L1B	Finding Relationships in Data	W1	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
STAT_V 306-L1C	STAT_V	306	L1C	Finding Relationships in Data	W1	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
STAT_V 306-L1D	STAT_V	306	L1D	Finding Relationships in Data	W1	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Arranged	Arranged
STAT_V 306-L2A	STAT_V	306	L2A	Finding Relationships in Data	W2	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Tue	12:00 p.m. - 1:00 p.m.
STAT_V 306-L2B	STAT_V	306	L2B	Finding Relationships in Data	W2	Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Wed	3:00 p.m. - 4:00 p.m.

							Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
STAT_V 306-L2C	STAT_V	306	L2C	Finding Relationships in Data	W2		Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
STAT_V 306-L2D	STAT_V	306	L2D	Finding Relationships in Data	W2		Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Arranged	Arranged
STAT_V 306-L2E	STAT_V	306	L2E	Finding Relationships in Data	W2		Modelling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: One of MATH 152, MATH 221, MATH 223 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 and one of MATH 302, STAT 302.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
STAT_V 344-101	STAT_V	344	101	Sample Surveys	W1		Planning and practice of sample surveys. Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratified sampling, ratio and regression estimators, post-stratification, establishing a frame, pretesting, pilot studies, nonresponse and additional topics. [3-0-1] Prerequisite: One of STAT 200, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278, PSYC 366. Corequisite: One of MATH 302, STAT 302.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
STAT_V 344-L1A	STAT_V	344	L1A	Sample Surveys	W1		Planning and practice of sample surveys. Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratified sampling, ratio and regression estimators, post-stratification, establishing a frame, pretesting, pilot studies, nonresponse and additional topics. [3-0-1] Prerequisite: One of STAT 200, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278, PSYC 366. Corequisite: One of MATH 302, STAT 302.	In Person Learning	Thu	11:00 a.m. - 12:00 p.m.
STAT_V 344-L1B	STAT_V	344	L1B	Sample Surveys	W1		Planning and practice of sample surveys. Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratified sampling, ratio and regression estimators, post-stratification, establishing a frame, pretesting, pilot studies, nonresponse and additional topics. [3-0-1] Prerequisite: One of STAT 200, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278, PSYC 366. Corequisite: One of MATH 302, STAT 302.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
STAT_V 344-L1C	STAT_V	344	L1C	Sample Surveys	W1		Planning and practice of sample surveys. Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratified sampling, ratio and regression estimators, post-stratification, establishing a frame, pretesting, pilot studies, nonresponse and additional topics. [3-0-1] Prerequisite: One of STAT 200, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278, PSYC 366. Corequisite: One of MATH 302, STAT 302.	In Person Learning	Arranged	Arranged
STAT_V 344-L1D	STAT_V	344	L1D	Sample Surveys	W1		Planning and practice of sample surveys. Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratified sampling, ratio and regression estimators, post-stratification, establishing a frame, pretesting, pilot studies, nonresponse and additional topics. [3-0-1] Prerequisite: One of STAT 200, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278, PSYC 366. Corequisite: One of MATH 302, STAT 302.	In Person Learning	Arranged	Arranged
STAT_V 344-L1E	STAT_V	344	L1E	Sample Surveys	W1		Planning and practice of sample surveys. Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratified sampling, ratio and regression estimators, post-stratification, establishing a frame, pretesting, pilot studies, nonresponse and additional topics. [3-0-1] Prerequisite: One of STAT 200, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278, PSYC 366. Corequisite: One of MATH 302, STAT 302.	In Person Learning	Arranged	Arranged
STAT_V 398-101	STAT_V	398	101	Co-operative Work Placement I	W1		Work experience in an industrial research setting. Normally taken during Winter Session of third year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Statistics Honours or Major Program.	In Person Learning	Arranged	Arranged
STAT_V 398-201	STAT_V	398	201	Co-operative Work Placement I	W2		Work experience in an industrial research setting. Normally taken during Winter Session of third year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Statistics Honours or Major Program.	In Person Learning	Arranged	Arranged
STAT_V 399-101	STAT_V	399	101	Co-operative Work Placement II	W1		Work experience in an industrial research setting. Normally taken during Summer Session following third year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [STAT398]	In Person Learning	Arranged	Arranged
STAT_V 399-201	STAT_V	399	201	Co-operative Work Placement II	W2		Work experience in an industrial research setting. Normally taken during Summer Session following third year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: [STAT398]	In Person Learning	Arranged	Arranged
STAT_V 404-101	STAT_V	404	101	Design and Analysis of Experiments	W1		Theory and application of analysis of variance for standard experimental designs, including blocked, nested, factorial and split plot designs. Fixed and random effects, multiple comparisons, analysis of covariance. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: STAT305, one of MATH 152, MATH 221, or MATH 223. Corequisite: ECON 326 or STAT 306.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
STAT_V 404-L1A	STAT_V	404	L1A	Design and Analysis of Experiments	W1		Theory and application of analysis of variance for standard experimental designs, including blocked, nested, factorial and split plot designs. Fixed and random effects, multiple comparisons, analysis of covariance. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: STAT305, one of MATH 152, MATH 221, or MATH 223. Corequisite: ECON 326 or STAT 306.	In Person Learning	Arranged	Arranged

STAT_V 404-L1B	STAT_V	404		L1B	Design and Analysis of Experiments	W1	Theory and application of analysis of variance for standard experimental designs, including blocked, nested, factorial and split plot designs. Fixed and random effects, multiple comparisons, analysis of covariance. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: STAT305, one of MATH 152, MATH 221, or MATH 223. Corequisite: ECON 326 or STAT 306.	In Person Learning	Wed	5:00 p.m. - 6:00 p.m.
STAT_V 404-L1C	STAT_V	404		L1C	Design and Analysis of Experiments	W1	Theory and application of analysis of variance for standard experimental designs, including blocked, nested, factorial and split plot designs. Fixed and random effects, multiple comparisons, analysis of covariance. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: STAT305, one of MATH 152, MATH 221, or MATH 223. Corequisite: ECON 326 or STAT 306.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
STAT_V 404-L1D	STAT_V	404		L1D	Design and Analysis of Experiments	W1	Theory and application of analysis of variance for standard experimental designs, including blocked, nested, factorial and split plot designs. Fixed and random effects, multiple comparisons, analysis of covariance. (Consult the Credit Exclusion list within the Faculty of Science section in the Calendar). [3-0-1] Prerequisite: STAT305, one of MATH 152, MATH 221, or MATH 223. Corequisite: ECON 326 or STAT 306.	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
STAT_V 406-101	STAT_V	406		101	Methods for Statistical Learning	W1	Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; neural networks; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CPSC 340.	In Person Learning	Tue Thu	8:00 a.m. - 9:30 a.m.
STAT_V 406-L1A	STAT_V	406		L1A	Methods for Statistical Learning	W1	Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; neural networks; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CPSC 340.	In Person Learning	Mon	9:00 a.m. - 10:00 a.m.
STAT_V 406-L1B	STAT_V	406		L1B	Methods for Statistical Learning	W1	Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; neural networks; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CPSC 340.	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
STAT_V 406-L1C	STAT_V	406		L1C	Methods for Statistical Learning	W1	Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; neural networks; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CPSC 340.	In Person Learning	Wed	8:00 a.m. - 9:00 a.m.
STAT_V 406-L1D	STAT_V	406		L1D	Methods for Statistical Learning	W1	Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; neural networks; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CPSC 340.	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.
STAT_V 443-202	STAT_V	443		202	Time Series and Forecasting	W2	Trend and seasonality, autocorrelation, stationarity, stochastic models, exponential smoothing, Holt-Winters methods, Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, POLI 380, PSYC 218, PSYC 278, PSYC 366. Corequisite: STAT 305.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
STAT_V 443-L2A	STAT_V	443		L2A	Time Series and Forecasting	W2	Trend and seasonality, autocorrelation, stationarity, stochastic models, exponential smoothing, Holt-Winters methods, Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, POLI 380, PSYC 218, PSYC 278, PSYC 366. Corequisite: STAT 305.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
STAT_V 443-L2B	STAT_V	443		L2B	Time Series and Forecasting	W2	Trend and seasonality, autocorrelation, stationarity, stochastic models, exponential smoothing, Holt-Winters methods, Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, POLI 380, PSYC 218, PSYC 278, PSYC 366. Corequisite: STAT 305.	In Person Learning	Tue	4:00 p.m. - 5:00 p.m.
STAT_V 443-L2C	STAT_V	443		L2C	Time Series and Forecasting	W2	Trend and seasonality, autocorrelation, stationarity, stochastic models, exponential smoothing, Holt-Winters methods, Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, POLI 380, PSYC 218, PSYC 278, PSYC 366. Corequisite: STAT 305.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
STAT_V 443-L2D	STAT_V	443		L2D	Time Series and Forecasting	W2	Trend and seasonality, autocorrelation, stationarity, stochastic models, exponential smoothing, Holt-Winters methods, Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, POLI 380, PSYC 218, PSYC 278, PSYC 366. Corequisite: STAT 305.	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
STAT_V 443-L2E	STAT_V	443		L2E	Time Series and Forecasting	W2	Trend and seasonality, autocorrelation, stationarity, stochastic models, exponential smoothing, Holt-Winters methods, Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, POLI 380, PSYC 218, PSYC 278, PSYC 366. Corequisite: STAT 305.	In Person Learning	Arranged	Arranged
STAT_V 447-C_201	STAT_V	447	C	C_201	Special Topics in Statistics	W2	Students should consult the Statistics Department for the particular topics offered in a given year. Prerequisite: [STAT305] The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
STAT_V 449-A_001	STAT_V	449	A	A_001	Statistics Honours Project	W1-2	A research project, undertaken under the supervision of a faculty member, resulting in a written report. Prerequisite: Open to students enrolled in a Statistics Honours specialization and at class standing 4. Permission of the Undergraduate Advisor and supervising faculty member is required.	In Person Learning	Arranged	Arranged
STAT_V 449-B_001	STAT_V	449	B	B_001	Statistics Honours Project	W1	A research project, undertaken under the supervision of a faculty member, resulting in a written report. Prerequisite: Open to students enrolled in a Statistics Honours specialization and at class standing 4. Permission of the Undergraduate Advisor and supervising faculty member is required.	In Person Learning	Arranged	Arranged
STAT_V 449-B_002	STAT_V	449	B	B_002	Statistics Honours Project	W2	A research project, undertaken under the supervision of a faculty member, resulting in a written report. Prerequisite: Open to students enrolled in a Statistics Honours specialization and at class standing 4. Permission of the Undergraduate Advisor and supervising faculty member is required.	In Person Learning	Arranged	Arranged

STAT_V 450-201	STAT_V	450	201	Case Studies in Statistics	W2	Readings and projects in areas of current statistical application including environmental science, industrial statistics, official statistics, actuarial statistics, and medical statistics. [3-0-1] Prerequisite: [STAT306]	In Person Learning	Wed Fri	9:00 a.m. - 10:30 a.m.	
STAT_V 450-T2A	STAT_V	450	T2A	Case Studies in Statistics	W2	Readings and projects in areas of current statistical application including environmental science, industrial statistics, official statistics, actuarial statistics, and medical statistics. [3-0-1] Prerequisite: [STAT306]	In Person Learning	Fri	3:00 p.m. - 4:00 p.m.	
STAT_V 460-101	STAT_V	460	101	Statistical Inference I	W1	Statistical models and their properties, estimation methods, properties of point and interval estimation, likelihood, Bayesian inference. Intended for Honours students. [3-0-0] Prerequisite: All of MATH 320, STAT 305 and one of MATH 152, MATH 221, MATH 223.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.	
STAT_V 461-201	STAT_V	461	201	Statistical Inference II	W2	Hypothesis testing and model selection in modern statistics, confidence regions, multiple testing, model comparison criteria. Intended for Honours students. [3-0-0] Prerequisite: [STAT460]	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.	
STAT_V 498-101	STAT_V	498	101	Co-operative Work Placement III	W1	Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
STAT_V 498-201	STAT_V	498	201	Co-operative Work Placement III	W2	Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
STAT_V 499-101	STAT_V	499	101	Co-operative Work Placement IV	W1	Work experience in an industrial research setting. Normally taken during Term 1 of Winter Session of fifth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
STAT_V 499-201	STAT_V	499	201	Co-operative Work Placement IV	W2	Work experience in an industrial research setting. Normally taken during Term 1 of Winter Session of fifth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged	
STAT_V 520-P_101	STAT_V	520	P	P_101	W1	Topics in Bayesian Analysis and Decision Theory	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STAT_V 521-B_101	STAT_V	521	B	B_101	W2	Topics in Multivariate Analysis	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STAT_V 522-B_101	STAT_V	522	B	B_101	W1	Topics in Asymptotic Theory and Statistical Inference	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	8:30 a.m. - 10:00 a.m.
STAT_V 535-C_101	STAT_V	535	C	C_101	W1	Statistical Computing	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
STAT_V 536-D_201	STAT_V	536	D	D_201	W2	Statistical Theory for the Design and Analysis of Clinical Studies	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STAT_V 536-E_201	STAT_V	536	E	E_201	W2	Statistical Theory for the Design and Analysis of Clinical Studies	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
STAT_V 536-F_201	STAT_V	536	F	F_201	W2	Statistical Theory for the Design and Analysis of Clinical Studies	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
STAT_V 538-A_101	STAT_V	538	A	A_101	W2	Generalized Linear Models	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	3:00 p.m. - 4:30 p.m.
STAT_V 540-A_201	STAT_V	540	A	A_201	W2	Statistical Methods for High Dimensional Biology	This course is not eligible for Credit/D/Fail grading. Equivalency: BIOF540, GSATS40	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
STAT_V 540-A_52B	STAT_V	540	A	A_52B	W2	Statistical Methods for High Dimensional Biology	This course is not eligible for Credit/D/Fail grading. Equivalency: BIOF540, GSATS40	In Person Learning	Tue	12:30 p.m. - 1:30 p.m.
STAT_V 545-A_101	STAT_V	545	A	A_101	W1	Exploratory Data Analysis	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:30 a.m.
STAT_V 545-B_102	STAT_V	545	B	B_102	W1	Exploratory Data Analysis	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
STAT_V 547-C_101	STAT_V	547	C	C_101	W1	Topics in Statistics	Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.
STAT_V 547-K_101	STAT_V	547	K	K_101	W1	Topics in Statistics	Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STAT_V 547-M_101	STAT_V	547	M	M_101	W1	Topics in Statistics	Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged

STAT_V 547-N_101	STAT_V	547	N	N_101	Topics in Statistics	W1	Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STAT_V 547-T_001	STAT_V	547	T	T_001	Topics in Statistics	W2	Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
STAT_V 547-U_101	STAT_V	547	U	U_101	Topics in Deep Learning Theory	W2	Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	12:30 p.m. - 1:30 p.m.
STAT_V 548-A_101	STAT_V	548	A	A_101	Directed Studies in Statistics	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
STAT_V 548-B_201	STAT_V	548	B	B_201	Directed Studies in Statistics	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
STAT_V 549-A_001	STAT_V	549	A	A_001	Thesis for Master's Degree	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
STAT_V 549-A_101	STAT_V	549	A	A_101	Thesis for Master's Degree	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
STAT_V 549-A_201	STAT_V	549	A	A_201	Thesis for Master's Degree	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
STAT_V 550-201	STAT_V	550		201	Techniques of Statistical Consulting	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	2:30 p.m. - 4:00 p.m.
STAT_V 551-101	STAT_V	551		101	Statistical Consulting Practicum	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	2:30 p.m. - 4:00 p.m.
STAT_V 560-101	STAT_V	560		101	Statistical Theory I	W1	Credit will not be given for both STAT 460 and STAT 560. This course is not eligible for Credit/D/Fail grading. [3-0-0]	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
STAT_V 561-201	STAT_V	561		201	Statistical Theory II	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
STAT_V 598-001	STAT_V	598		001	Co-operative Work Placement I	W1	Restricted to students admitted to the Co-operative M.Sc. Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	8:00 a.m. - 8:30 a.m.
STAT_V 599-101	STAT_V	599		101	Co-operative Work Placement II	W1	Restricted to students admitted to the Co-operative M.Sc. Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: STAT 598.	In Person Learning	Arranged	Arranged
STAT_V 599-201	STAT_V	599		201	Co-operative Work Placement II	W2	Restricted to students admitted to the Co-operative M.Sc. Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: STAT 598.	In Person Learning	Arranged	Arranged
STAT_V 649-001	STAT_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
STAT_V 649-101	STAT_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
STAT_V 649-201	STAT_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged
STS_V 501-001	STS_V	501		001	Proseminar in Science and Technology Studies	W1	Classic work in the history, philosophy, rhetoric, and sociology of science, and the development of a unified science and technology studies. Required for all students in the STS Program. This course is co-taught. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	2:00 p.m. - 4:30 p.m.
STS_V 502-001	STS_V	502		001	Core Seminar in Science and Technology Studies	W2	Thematises the relations of historical, philosophical, literary, rhetorical, sociological, and anthropological approaches to science and technology. Recommended pre-requisite: STS 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
STS_V 502-002	STS_V	502		002	Core Seminar in Science and Technology Studies	W1	Thematises the relations of historical, philosophical, literary, rhetorical, sociological, and anthropological approaches to science and technology. Recommended pre-requisite: STS 501. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STS_V 597-001	STS_V	597		001	Master's Colloquium in Science and Technology Studies	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 6:30 p.m.
STS_V 598-A_001	STS_V	598	A	A_001	Doctoral Colloquium in Science and Technology Studies	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	5:00 p.m. - 6:30 p.m.

STS_V 599-001	STS_V	599	001	Master's Thesis		W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STS_V 599-002	STS_V	599	002	Master's Thesis		W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
STS_V 599-003	STS_V	599	003	Master's Thesis		W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SURG_V 500-201	SURG_V	500	201	Experimental Surgery		W1	Lectures and seminars dealing with the selected application of surgical techniques in biological investigation. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
SURG_V 510-A_99A	SURG_V	510	A	A_99A	Surgical Care in International Health	W1	Foundation to international surgery. The discussion of the global burden of unmet surgical needs and a professional response in low and middle income regions of the world. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 510-B_99A	SURG_V	510	B	B_99A	Surgical Care in International Health	W1	Foundation to international surgery. The discussion of the global burden of unmet surgical needs and a professional response in low and middle income regions of the world. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 512-A_99A	SURG_V	512	A	A_99A	Global Disability: A Surgical Care Mandate	W1	Relationship of surgery to preventing and treating disabling impairments in lower income countries. Focus will be on sensory impairments (blindness and deafness) and physical impairment. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 512-B_99A	SURG_V	512	B	B_99A	Global Disability: A Surgical Care Mandate	W1	Relationship of surgery to preventing and treating disabling impairments in lower income countries. Focus will be on sensory impairments (blindness and deafness) and physical impairment. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 514-A_99C	SURG_V	514	A	A_99C	Surgical Care in Humanitarian Disaster Response	W2	Examines response to humanitarian disasters. Includes case models of surgical care responses and strategies to move from relief to recovery. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 514-B_99C	SURG_V	514	B	B_99C	Surgical Care in Humanitarian Disaster Response	W2	Examines response to humanitarian disasters. Includes case models of surgical care responses and strategies to move from relief to recovery. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 516-A_99C	SURG_V	516	A	A_99C	Program Planning and Evaluation in Surgical Care Low Resource Settings	W2	Program Planning and Evaluation in Surgical Care contexts. Theory, approaches and methods for conducting surgical care programs among populations in various low resource contexts. Key concepts, ethical approaches and practices, and practical skills development. Credit will be granted for only one of SPPH 540 or SURG 516. This course is not eligible for Credit/D/Fail grading. Prerequisite: SURG 510.	Online Learning	Arranged	Arranged
SURG_V 516-B_99C	SURG_V	516	B	B_99C	Program Planning and Evaluation in Surgical Care Low Resource Settings	W2	Program Planning and Evaluation in Surgical Care contexts. Theory, approaches and methods for conducting surgical care programs among populations in various low resource contexts. Key concepts, ethical approaches and practices, and practical skills development. Credit will be granted for only one of SPPH 540 or SURG 516. This course is not eligible for Credit/D/Fail grading. Prerequisite: SURG 510.	Online Learning	Arranged	Arranged
SURG_V 517-A_999	SURG_V	517	A	A_999	Clinical Research Methods for Surgical Procedures with Global Surgical Comparisons	W1	Clinical research methods, research process, systematic reviews, quality improvement and assurance, and technology evaluation with an emphasis on research in global surgical care. Credit will be granted for only one of SURG 517 or SPPH 517. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 517-B_999	SURG_V	517	B	B_999	Clinical Research Methods for Surgical Procedures with Global Surgical Comparisons	W1	Clinical research methods, research process, systematic reviews, quality improvement and assurance, and technology evaluation with an emphasis on research in global surgical care. Credit will be granted for only one of SURG 517 or SPPH 517. This course is not eligible for Credit/D/Fail grading.	Online Learning	Arranged	Arranged
SURG_V 518-A_99C	SURG_V	518	A	A_99C	Surgical Care in Canada's Rural and Remote Indigenous Communities with Global Comparisons	W2	Critiques the current and historical provision of surgical care services to indigenous communities in Canada and globally. Examines challenges and opportunities confronting both the clinician and the service delivery system, embracing lessons learned from these communities. This course is not eligible for Credit/D/Fail grading. Prerequisite: SURG 510.	Online Learning	Arranged	Arranged
SURG_V 518-B_99C	SURG_V	518	B	B_99C	Surgical Care in Canada's Rural and Remote Indigenous Communities with Global Comparisons	W2	Critiques the current and historical provision of surgical care services to indigenous communities in Canada and globally. Examines challenges and opportunities confronting both the clinician and the service delivery system, embracing lessons learned from these communities. This course is not eligible for Credit/D/Fail grading. Prerequisite: SURG 510.	Online Learning	Arranged	Arranged
SURG_V 542-A_99A	SURG_V	542	A	A_99A	Directed Study in Global Surgical Care	W1	Literature review of a global surgical care topic chosen in consultation with an advisor. Includes analysis of existing literature and research, and identification of gaps in current knowledge. This course is not eligible for Credit/D/Fail grading. Prerequisite: Four of SURG 510, SURG 512, SURG 514. Corequisite: SURG 517.	Online Learning	Arranged	Arranged
SURG_V 542-B_99A	SURG_V	542	B	B_99A	Directed Study in Global Surgical Care	W1	Literature review of a global surgical care topic chosen in consultation with an advisor. Includes analysis of existing literature and research, and identification of gaps in current knowledge. This course is not eligible for Credit/D/Fail grading. Prerequisite: Four of SURG 510, SURG 512, SURG 514. Corequisite: SURG 517.	Online Learning	Arranged	Arranged
SURG_V 549-C_001	SURG_V	549	C	C_001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SURG_V 549-C_002	SURG_V	549	C	C_002	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
SURG_V 549-C_003	SURG_V	549	C	C_003	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

SURG_V 560-A-99B	SURG_V	560	A	A_99B	Global Surgical Care Field Practicum	W1-2	Course with a four to eight week on-site field placement. Proposal development, implementation and high-level written report of a surgical care field practicum in an underserved location globally, producing practical on-the-ground skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of SURG 510, SURG 512, SURG 514, SURG 516. Corequisite: SURG 517.	Online Learning	Arranged	Arranged
SURG_V 560-B-99B	SURG_V	560	B	B_99B	Global Surgical Care Field Practicum	W1-2	Course with a four to eight week on-site field placement. Proposal development, implementation and high-level written report of a surgical care field practicum in an underserved location globally, producing practical on-the-ground skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of SURG 510, SURG 512, SURG 514, SURG 516. Corequisite: SURG 517.	Online Learning	Arranged	Arranged
SWAH_V 101-101	SWAH_V	101		101	Beginners' Swahili I	W1	Skills in listening to and speaking Swahili, a major language of Africa and one of the most widely spoken languages in the world. Emphasizes everyday vocabulary, core grammar, use in context, and connections between the language and African cultures.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SWAH_V 102-201	SWAH_V	102		201	Beginners' Swahili II	W2	Skills in using Swahili in a range of social contexts. Training in grammar and vocabulary that builds fluency, and in using the language appropriately for meaningful interactions with native speakers. Prerequisite: SWAH 101. or equivalent.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SWED_V 100-101	SWED_V	100		101	Elementary Swedish I	W1	Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210).	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
SWED_V 100-102	SWED_V	100		102	Elementary Swedish I	W1	Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210).	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SWED_V 110-201	SWED_V	110		201	Elementary Swedish II	W2	Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210).	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
SWED_V 200-101	SWED_V	200		101	Intermediate Swedish I	W1		In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
SWED_V 210-201	SWED_V	210		201	Intermediate Swedish II	W2		In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
THFL_V 100-001	THFL_V	100		001	The Art of Storytelling for Stage and Screen	W1	Fundamental elements of the art of storytelling as approached within each of the core areas taught in the Department of Theatre and Film: Acting/Directing, Design and Production, and Film Production. Restricted to students in one of the following BFA programs: Major in Acting; Major in Film Production; Major in Theatre Design and Production	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
THFL_V 226-001	THFL_V	226		001	Celebrity Studies	W1	Critical analysis of global celebrity in the performing arts.	In Person Learning	Thu	10:00 a.m. - 11:00 a.m.
THFL_V 402-001	THFL_V	402		001	Professional Portfolio Preparation for Live and Digital Performance	W1	Preparation to transition into the theatre and film industry. Portfolio development, visual identity, and skills to support professional performance practices aligned with theatre and film professional associations. Restricted to students in third or fourth-year in one of the following programs: Major in Film Production; Major in Theatre Design and Production. Prerequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, FIPR 333.	In Person Learning	Wed	2:00 p.m. - 4:00 p.m.
THFL_V 599-B-001	THFL_V	599	B	B_001	Production	W2	Assigned projects in Theatre and Film design and production. Restricted to students in the MFA THTR and MFA FIPR programs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THFL_V 599-C-001	THFL_V	599	C	C_001	Production	W1-2	Assigned projects in Theatre and Film design and production. Restricted to students in the MFA THTR and MFA FIPR programs. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed (Alternate weeks)	1:00 p.m. - 2:00 p.m.
THTR_V 120-001	THTR_V	120		001	Introduction to Theatre	W1	Theory and practice of the theatrical arts. Attendance at plays is required.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
THTR_V 120-002	THTR_V	120		002	Introduction to Theatre	W2	Theory and practice of the theatrical arts. Attendance at plays is required.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.
THTR_V 120-D11	THTR_V	120		D11	Introduction to Theatre	W1	Theory and practice of the theatrical arts. Attendance at plays is required.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
THTR_V 120-D12	THTR_V	120		D12	Introduction to Theatre	W1	Theory and practice of the theatrical arts. Attendance at plays is required.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
THTR_V 120-D21	THTR_V	120		D21	Introduction to Theatre	W2	Theory and practice of the theatrical arts. Attendance at plays is required.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
THTR_V 120-D22	THTR_V	120		D22	Introduction to Theatre	W2	Theory and practice of the theatrical arts. Attendance at plays is required.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
THTR_V 130-001	THTR_V	130		001	Introduction to Stage Acting	W1		In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
THTR_V 130-002	THTR_V	130		002	Introduction to Stage Acting	W2		In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.

THTR_V 130-003	THTR_V	130		003	Introduction to Stage Acting	W2		In Person Learning	Arranged	Arranged
THTR_V 150-A_001	THTR_V	150	A	A_001	Introduction to Production	W1	Foundation study of production for the performing arts.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
THTR_V 150-B_001	THTR_V	150	B	B_001	Introduction to Production	W1-2	Foundation study of production for the performing arts.	In Person Learning	Thu	1:00 p.m. - 2:00 p.m.
THTR_V 205-A_001	THTR_V	205	A	A_001	Graphics for Theatre and Film Design	W1		In Person Learning	Mon	1:00 p.m. - 2:00 p.m.
THTR_V 205-A_002	THTR_V	205	A	A_002	Graphics for Theatre and Film Design	W1		In Person Learning	Arranged	Arranged
THTR_V 205-A_L01	THTR_V	205	A	A_L01	Graphics for Theatre and Film Design	W1		In Person Learning	Mon	3:00 p.m. - 5:00 p.m.
THTR_V 205-A_L02	THTR_V	205	A	A_L02	Graphics for Theatre and Film Design	W1		In Person Learning	Tue	1:00 p.m. - 3:00 p.m.
THTR_V 205-A_L03	THTR_V	205	A	A_L03	Graphics for Theatre and Film Design	W1		In Person Learning	Thu	11:00 a.m. - 1:00 p.m.
THTR_V 205-A_L04	THTR_V	205	A	A_L04	Graphics for Theatre and Film Design	W1		In Person Learning	Thu	2:00 p.m. - 4:00 p.m.
THTR_V 205-D_001	THTR_V	205	D	D_001	Graphics for Theatre and Film Design	W2		In Person Learning	Arranged	Arranged
THTR_V 205-D_002	THTR_V	205	D	D_002	Graphics for Theatre and Film Design	W2		In Person Learning	Arranged	Arranged
THTR_V 205-D_003	THTR_V	205	D	D_003	Graphics for Theatre and Film Design	W2		In Person Learning	Arranged	Arranged
THTR_V 205-D_004	THTR_V	205	D	D_004	Graphics for Theatre and Film Design	W2		In Person Learning	Wed	9:00 a.m. - 11:30 a.m.
THTR_V 210-001	THTR_V	210		001	Drama: Forms and Ideas I	W1	The Anatomy of Drama: Its history, aesthetic principles, performative potential.	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
THTR_V 210-D11	THTR_V	210		D11	Drama: Forms and Ideas I	W1	The Anatomy of Drama: Its history, aesthetic principles, performative potential.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
THTR_V 210-D12	THTR_V	210		D12	Drama: Forms and Ideas I	W1	The Anatomy of Drama: Its history, aesthetic principles, performative potential.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
THTR_V 210-D13	THTR_V	210		D13	Drama: Forms and Ideas I	W1	The Anatomy of Drama: Its history, aesthetic principles, performative potential.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
THTR_V 211-001	THTR_V	211		001	Drama: Forms and Ideas II	W2	Topics in comparative drama; drama and the other performing arts; dramaturgy.	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
THTR_V 211-D11	THTR_V	211		D11	Drama: Forms and Ideas II	W2	Topics in comparative drama; drama and the other performing arts; dramaturgy.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
THTR_V 211-D12	THTR_V	211		D12	Drama: Forms and Ideas II	W2	Topics in comparative drama; drama and the other performing arts; dramaturgy.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
THTR_V 211-D13	THTR_V	211		D13	Drama: Forms and Ideas II	W2	Topics in comparative drama; drama and the other performing arts; dramaturgy.	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
THTR_V 245-001	THTR_V	245		001	Play-Interpretation and Production-Analysis	W1	Basic methods of interpreting dramatic texts and analyzing plays in performance. The plays presented on the Frederic Wood Stage will be studied in this course.	In Person Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
THTR_V 250-001	THTR_V	250		001	Technical Production	W1	The construction and execution of scenery, costumes, properties, lighting, and sound for the stage. Credit will be granted for only one of THTR 250 or THTR 254. Equivalency: THTR 254	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.

THTR_V 250-002	THTR_V	250	002	Technical Production	W1	The construction and execution of scenery, costumes, properties, lighting, and sound for the stage. Credit will be granted for only one of THTR 250 or THTR 254. Equivalency: THTR 254	In Person Learning	Thu	9:30 a.m. - 11:00 a.m.	
THTR_V 271-001	THTR_V	271	001	Beginning B.F.A. Acting I	W1	Open only to B.F.A. Acting students. An audition is required. Prerequisite: At least one theatre course.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
THTR_V 272-001	THTR_V	272	001	Beginning B.F.A. Acting II	W2	Open only to B.F.A. Acting students.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.	
THTR_V 273-001	THTR_V	273	001	Beginning Voice and Movement I	W1	Open only to B.F.A. Acting students. An audition is required. Prerequisite: At least one theatre course.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.	
THTR_V 274-001	THTR_V	274	001	Beginning Voice and Movement II	W2	Open only to B.F.A. Acting students.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.	
THTR_V 299-A_001	THTR_V	299	A	A_001	Production I	W1	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-A_002	THTR_V	299	A	A_002	Production I	W1	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-A_003	THTR_V	299	A	A_003	Production I	W1	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-A_004	THTR_V	299	A	A_004	Production I	W1	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-A_005	THTR_V	299	A	A_005	Production I	W1	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-A_006	THTR_V	299	A	A_006	Production I	W1	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-A_007	THTR_V	299	A	A_007	Production I	W1	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-B_001	THTR_V	299	B	B_001	Production I	W2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-B_002	THTR_V	299	B	B_002	Production I	W2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-B_003	THTR_V	299	B	B_003	Production I	W2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-B_004	THTR_V	299	B	B_004	Production I	W2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-B_005	THTR_V	299	B	B_005	Production I	W2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-B_006	THTR_V	299	B	B_006	Production I	W2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-B_007	THTR_V	299	B	B_007	Production I	W2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-C_001	THTR_V	299	C	C_001	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-C_002	THTR_V	299	C	C_002	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-C_003	THTR_V	299	C	C_003	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-C_004	THTR_V	299	C	C_004	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged

THTR_V 299-C_005	THTR_V	299	C	C_005	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-C_006	THTR_V	299	C	C_006	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-C_007	THTR_V	299	C	C_007	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-K_001	THTR_V	299	K	K_001	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-L_001	THTR_V	299	L	L_001	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-P_001	THTR_V	299	P	P_001	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 299-R_001	THTR_V	299	R	R_001	Production I	W1-2	Assigned projects in theatre production. Corequisite: One of THTR 205, THTR 250. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 251	In Person Learning	Arranged	Arranged
THTR_V 305-001	THTR_V	305		001	Scenery Design I	W2	Principles and practice of scenery design for the performing arts.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
THTR_V 306-001	THTR_V	306		001	Costume Design I	W1	Principles and practice of costume design for the performing arts.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
THTR_V 307-001	THTR_V	307		001	Lighting Design I	W2	The optical, distribution, and control systems used in stage lighting design.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.
THTR_V 308-001	THTR_V	308		001	Sound Design	W1	Audio design and production.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
THTR_V 310-001	THTR_V	310		001	Theory of Drama Performance	W1	The basic principles of dramaturgy and theory of performance. Historical and contemporary writing on dramatic theory and criticism and their relation to theatrical practice.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
THTR_V 311-001	THTR_V	311		001	Studies in Drama	W1	Topics will vary from year to year.	In Person Learning	Tue	12:30 p.m. - 3:30 p.m.
THTR_V 320-001	THTR_V	320		001	History of Theatre I	W2	Core concepts in world theatre history and the development of theatre prior to the nineteenth century.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
THTR_V 325-B_001	THTR_V	325	B	B_001	History of Canadian Theatre	W1		In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.
THTR_V 340-B_001	THTR_V	340	B	B_001	Studies in Asian Theatre	W2	Open to all students in third year and above.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
THTR_V 350-001	THTR_V	350		001	Scenery Production I	W2	Scenery construction, rigging, and systems. Prerequisite: THTR 250.	In Person Learning	Tue Thu	9:30 a.m. - 12:30 p.m.
THTR_V 352-001	THTR_V	352		001	Scene Painting I	W2	Media, techniques, and textural treatments used in scene painting.	In Person Learning	Mon Tue	6:00 p.m. - 9:00 p.m.
THTR_V 354-001	THTR_V	354		001	Stage Management	W1	Principles and procedures of stage management: organizations, systems, and operations.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
THTR_V 356-001	THTR_V	356		001	Costume Construction	W1	Advanced assembly and specialized construction methods for producing costume for stage and screen.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
THTR_V 356-002	THTR_V	356		002	Costume Construction	W1	Advanced assembly and specialized construction methods for producing costume for stage and screen.	In Person Learning	Arranged	Arranged
THTR_V 356-S11	THTR_V	356		S11	Costume Construction	W1	Advanced assembly and specialized construction methods for producing costume for stage and screen.	In Person Learning	Arranged	Arranged
THTR_V 371-001	THTR_V	371		001	Intermediate B.F.A. Acting I	W1	Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.	In Person Learning	Mon Wed Fri	1:00 p.m. - 4:30 p.m.

THTR_V 372-001	THTR_V	372	001	Intermediate B.F.A. Acting II	W2	Open only to B.F.A. Acting students. Corequisite: All of THTR 371, THTR 373, THTR 374.	In Person Learning	Mon Wed Fri	1:00 p.m. - 4:30 p.m.	
THTR_V 373-001	THTR_V	373	001	Intermediate Voice, Speech, and Movement I	W1	Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.	In Person Learning	Tue Thu	1:00 p.m. - 4:30 p.m.	
THTR_V 374-001	THTR_V	374	001	Intermediate Voice, Speech, and Movement II	W2	Open only to B.F.A. Acting students. Corequisite: All of THTR 371, THTR 372, THTR 373.	In Person Learning	Tue Thu	1:00 p.m. - 4:30 p.m.	
THTR_V 391-A_001	THTR_V	391	A	A_001	Rehearsal and Performance	W1	Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.	In Person Learning	Arranged	Arranged
THTR_V 391-B_001	THTR_V	391	B	B_001	Rehearsal and Performance	W2	Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.	In Person Learning	Arranged	Arranged
THTR_V 391-C_001	THTR_V	391	C	C_001	Rehearsal and Performance	W1-2	Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.	In Person Learning	Arranged	Arranged
THTR_V 399-A_001	THTR_V	399	A	A_001	Production II	W1	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-B_001	THTR_V	399	B	B_001	Production II	W2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-C_001	THTR_V	399	C	C_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-K_001	THTR_V	399	K	K_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-L_001	THTR_V	399	L	L_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-M_001	THTR_V	399	M	M_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-P_001	THTR_V	399	P	P_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-R_001	THTR_V	399	R	R_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-S_001	THTR_V	399	S	S_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 399-Y_001	THTR_V	399	Y	Y_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Wed (Alternate weeks)	1:00 p.m. - 2:00 p.m.
THTR_V 399-Z_001	THTR_V	399	Z	Z_001	Production II	W1-2	Assigned projects in theatre design and production. Corequisite: One of THTR 305, THTR 306, THTR 307, THTR 308, THTR 350, THTR 352, THTR 354, THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 405-001	THTR_V	405	001	Scenery Design II	W1	Exploration of complex scenery design and development of design portfolio. Prerequisite: [THTR305]	In Person Learning	Arranged	Arranged	
THTR_V 405-002	THTR_V	405	002	Scenery Design II	W1	Exploration of complex scenery design and development of design portfolio. Prerequisite: [THTR305]	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.	
THTR_V 406-001	THTR_V	406	001	Costume Design II	W2	Complex problems and selected historical studies in costume design. Prerequisite: THTR 306.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.	
THTR_V 407-001	THTR_V	407	001	Lighting Design II	W2	Complex design and advanced technologies in stage lighting and scenography. Prerequisite: THTR 307.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.	
THTR_V 410-001	THTR_V	410	001	Dramaturgy	W2	Advanced problems in dramaturgy, both in a historical and a contemporary context.	In Person Learning	Arranged	Arranged	
THTR_V 417-001	THTR_V	417	001	Directing Lab	W1	Prerequisite: THTR 317. Permission of the instructor is required for admission to this course.	In Person Learning	Fri	1:00 p.m. - 4:00 p.m.	

THTR_V 440-B_001	THTR_V	440	B	B_001	Topics in Theatre	W1	An examination in depth of a selected area of theatre history, theory or practice. Topics will change from year to year. May be repeated for credit when topics differ. Prerequisite: 6 credits of THTR at the 300-level or above.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
THTR_V 440-C_001	THTR_V	440	C	C_001	Topics in Theatre	W2	An examination in depth of a selected area of theatre history, theory or practice. Topics will change from year to year. May be repeated for credit when topics differ. Prerequisite: 6 credits of THTR at the 300-level or above.	In Person Learning	Arranged	Arranged
THTR_V 440-D_001	THTR_V	440	D	D_001	Topics in Theatre	W2	An examination in depth of a selected area of theatre history, theory or practice. Topics will change from year to year. May be repeated for credit when topics differ. Prerequisite: 6 credits of THTR at the 300-level or above.	In Person Learning	Arranged	Arranged
THTR_V 443-A_001	THTR_V	443	A	A_001	Women in Theatre and Film	W2	A course dealing with women's involvement in and contribution to various aspects of Theatre and/or Film Topics will change from year to year. Credit will be granted for only one of THTR 443 or THTR 415. Equivalency: THTR 415	In Person Learning	Thu	12:30 p.m. - 3:30 p.m.
THTR_V 445-001	THTR_V	445		001	Majors and Honours Seminar	W2		In Person Learning	Tue	12:30 p.m. - 3:30 p.m.
THTR_V 448-A_001	THTR_V	448	A	A_001	Directed Studies in Theatre Theory and Practice	W1		In Person Learning	Arranged	Arranged
THTR_V 448-A_002	THTR_V	448	A	A_002	Directed Studies in Theatre Theory and Practice	W1		In Person Learning	Arranged	Arranged
THTR_V 448-A_003	THTR_V	448	A	A_003	Directed Studies in Theatre Theory and Practice	W1		In Person Learning	Arranged	Arranged
THTR_V 448-A_004	THTR_V	448	A	A_004	Directed Studies in Theatre Theory and Practice	W1		In Person Learning	Arranged	Arranged
THTR_V 448-A_005	THTR_V	448	A	A_005	Directed Studies in Theatre Theory and Practice	W1		In Person Learning	Arranged	Arranged
THTR_V 448-A_006	THTR_V	448	A	A_006	Directed Studies in Theatre Theory and Practice	W1		In Person Learning	Arranged	Arranged
THTR_V 448-B_001	THTR_V	448	B	B_001	Directed Studies in Theatre Theory and Practice	W2		In Person Learning	Arranged	Arranged
THTR_V 448-B_002	THTR_V	448	B	B_002	Directed Studies in Theatre Theory and Practice	W2		In Person Learning	Arranged	Arranged
THTR_V 448-B_003	THTR_V	448	B	B_003	Directed Studies in Theatre Theory and Practice	W2		In Person Learning	Arranged	Arranged
THTR_V 448-B_004	THTR_V	448	B	B_004	Directed Studies in Theatre Theory and Practice	W2		In Person Learning	Arranged	Arranged
THTR_V 448-B_005	THTR_V	448	B	B_005	Directed Studies in Theatre Theory and Practice	W2		In Person Learning	Arranged	Arranged
THTR_V 448-B_006	THTR_V	448	B	B_006	Directed Studies in Theatre Theory and Practice	W2		In Person Learning	Arranged	Arranged
THTR_V 448-B_007	THTR_V	448	B	B_007	Directed Studies in Theatre Theory and Practice	W2		In Person Learning	Arranged	Arranged
THTR_V 448-C_001	THTR_V	448	C	C_001	Directed Studies in Theatre Theory and Practice	W1-2		In Person Learning	Arranged	Arranged
THTR_V 448-C_002	THTR_V	448	C	C_002	Directed Studies in Theatre Theory and Practice	W1-2		In Person Learning	Arranged	Arranged
THTR_V 448-C_003	THTR_V	448	C	C_003	Directed Studies in Theatre Theory and Practice	W1-2		In Person Learning	Arranged	Arranged
THTR_V 448-C_004	THTR_V	448	C	C_004	Directed Studies in Theatre Theory and Practice	W1-2		In Person Learning	Arranged	Arranged
THTR_V 448-C_005	THTR_V	448	C	C_005	Directed Studies in Theatre Theory and Practice	W1-2		In Person Learning	Arranged	Arranged

THTR_V 448-C_006	THTR_V	448	C	C_006	Directed Studies in Theatre Theory and Practice	W1-2		In Person Learning	Arranged	Arranged
THTR_V 448-C_007	THTR_V	448	C	C_007	Directed Studies in Theatre Theory and Practice	W1-2		In Person Learning	Arranged	Arranged
THTR_V 449-001	THTR_V	449		001	Supervised Study and Honours Essay	W1-2		In Person Learning	Arranged	Arranged
THTR_V 450-001	THTR_V	450		001	Scenery Production II	W2	Technical direction; complex techniques and problems in scenery production. Prerequisite: [THTR350]	In Person Learning	Tue Thu	9:30 a.m. - 12:30 p.m.
THTR_V 452-001	THTR_V	452		001	Scene Painting II	W2	Study of selected scene painting styles. Prerequisite: [THTR352]	In Person Learning	Mon Tue	6:00 p.m. - 9:00 p.m.
THTR_V 456-001	THTR_V	456		001	Costume Construction II	W1	Pattern development and cutting for costume for stage and screen using flat pattern and draping. Prerequisite: THTR 356.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
THTR_V 456-S11	THTR_V	456		S11	Costume Construction II	W1	Pattern development and cutting for costume for stage and screen using flat pattern and draping. Prerequisite: THTR 356.	In Person Learning	Arranged	Arranged
THTR_V 471-001	THTR_V	471		001	Advanced B.F.A. Acting I	W1	Open only to B.F.A. (Acting) students. Prerequisite: All of THTR 371, THTR 372, THTR 373, THTR 374, THTR 391.	In Person Learning	Mon Wed	12:30 p.m. - 4:30 p.m.
THTR_V 472-001	THTR_V	472		001	Advanced B.F.A. Acting II	W2	Open only to B.F.A. Acting students. Corequisite: All of THTR 471, THTR 473, THTR 474.	In Person Learning	Mon Wed	12:30 p.m. - 4:30 p.m.
THTR_V 473-001	THTR_V	473		001	Advanced Speech and Movement I	W1	Open only to B.F.A. Acting students. Prerequisite: Three of THTR 371, THTR 372, THTR 373, THTR 374, THTR 391.	In Person Learning	Tue Thu	1:00 p.m. - 4:30 p.m.
THTR_V 474-001	THTR_V	474		001	Advanced Speech and Movement II	W2	Open only to B.F.A. Acting students. Corequisite: All of THTR 471, THTR 472, THTR 473.	In Person Learning	Tue Thu	1:00 p.m. - 4:30 p.m.
THTR_V 491-A_001	THTR_V	491	A	A_001	Advanced Rehearsal and Performance	W1	Open only to B.F.A. Acting students. Prerequisite: Three of THTR 371, THTR 372, THTR 373, THTR 374, THTR 391.	In Person Learning	Arranged	Arranged
THTR_V 491-B_001	THTR_V	491	B	B_001	Advanced Rehearsal and Performance	W2	Open only to B.F.A. Acting students. Prerequisite: Three of THTR 371, THTR 372, THTR 373, THTR 374, THTR 391.	In Person Learning	Arranged	Arranged
THTR_V 491-C_001	THTR_V	491	C	C_001	Advanced Rehearsal and Performance	W1-2	Open only to B.F.A. Acting students. Prerequisite: Three of THTR 371, THTR 372, THTR 373, THTR 374, THTR 391.	In Person Learning	Arranged	Arranged
THTR_V 499-A_001	THTR_V	499	A	A_001	Production III	W1	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-B_001	THTR_V	499	B	B_001	Production III	W2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-C_001	THTR_V	499	C	C_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-K_001	THTR_V	499	K	K_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-L_001	THTR_V	499	L	L_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-M_001	THTR_V	499	M	M_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-P_001	THTR_V	499	P	P_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-R_001	THTR_V	499	R	R_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged
THTR_V 499-S_001	THTR_V	499	S	S_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Arranged	Arranged

THTR_V 499-Y_001	THTR_V	499	Y	Y_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Wed (Alternate weeks)	1:00 p.m. - 2:00 p.m.
THTR_V 499-Z_001	THTR_V	499	Z	Z_001	Production III	W1-2	Assigned projects in Theatre or Film design and production. Prerequisite: THTR 399. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.	In Person Learning	Wed (Alternate weeks)	1:00 p.m. - 2:00 p.m.
THTR_V 505-001	THTR_V	505		001	Scenery Design Studio I	W1	Scenery design for theatre and other performance forms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THTR_V 505-002	THTR_V	505		002	Scenery Design Studio I	W1	Scenery design for theatre and other performance forms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
THTR_V 507-001	THTR_V	507		001	Scenery Design Studio II	W1-2	Complex scenery design for opera, dance, theatre, and other performance forms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THTR_V 507-002	THTR_V	507		002	Scenery Design Studio II	W2	Complex scenery design for opera, dance, theatre, and other performance forms. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THTR_V 520-001	THTR_V	520		001	Direction and Production	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THTR_V 521-001	THTR_V	521		001	Styles in Directing	W1-2	An advanced course in directing; detailed study of the major styles in the history of production. This course is not eligible for Credit/D/Fail grading. Prerequisite: [THTR520]	In Person Learning	Arranged	Arranged
THTR_V 530-B_001	THTR_V	530	B	B_001	Seminar: Relationships Between Theatre and the Other Arts	W1	Studies in a selected area of theatre in relation to one or more of the other arts. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
THTR_V 547-A_001	THTR_V	547	A	A_001	Directed Studies in Theatre and Drama and Film/Television	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THTR_V 547-B_001	THTR_V	547	B	B_001	Directed Studies in Theatre and Drama and Film/Television	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THTR_V 547-C_001	THTR_V	547	C	C_001	Directed Studies in Theatre and Drama and Film/Television	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
THTR_V 549-A_002	THTR_V	549	A	A_002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
THTR_V 549-B_001	THTR_V	549	B	B_001	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
THTR_V 549-C_002	THTR_V	549	C	C_002	Master's Thesis	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
THTR_V 549-C_003	THTR_V	549	C	C_003	Master's Thesis	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
THTR_V 549-DNU_B_001	THTR_V	549	B	DNU_B_001	Master's Thesis	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
THTR_V 555-001	THTR_V	555		001	Structural Design for the Stage I	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
THTR_V 561-A_001	THTR_V	561	A	A_001	Studies in Dramatic Literature	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
THTR_V 562-A_001	THTR_V	562	A	A_001	Studies in Dramatic Theory and Criticism	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
THTR_V 649-001	THTR_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
THTR_V 649-002	THTR_V	649		002	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
THTR_V 649-003	THTR_V	649		003	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged

TIBT_V 100-011	TIBT_V	100	011	Introduction to Tibetan I	W1	Concepts, grammar, syntax of spoken and written Tibetan for beginners. Also covers aspects of Tibetan worldview.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
TIBT_V 100-012	TIBT_V	100	012	Introduction to Tibetan I	W1	Concepts, grammar, syntax of spoken and written Tibetan for beginners. Also covers aspects of Tibetan worldview.	In Person Learning	Tue Thu	10:00 a.m. - 12:00 p.m.
TIBT_V 101-021	TIBT_V	101	021	Introduction to Tibetan II	W2	Focus on grammar, syntax, and structures to improve comprehension and communication skills. Also covers aspects of Tibetan worldview. Recommended pre-requisite: TIBT 100.	In Person Learning	Mon Wed	10:00 a.m. - 12:00 p.m.
TIBT_V 300-011	TIBT_V	300	011	Classical Tibetan I	W1	The basics of classical Tibetan grammar and vocabulary, with readings from a selection of daily prayer verses. Recommended pre-requisite: completion of TIBT 100 or TIBT 390 with a minimum grade of 60%.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
TIBT_V 301-021	TIBT_V	301	021	Classical Tibetan II	W2	Continuation of introductory classical Tibetan grammar and vocabulary, with selected readings to strengthen one's foundation in classical Tibetan. Recommended pre-requisite: completion of TIBT 300 with a minimum grade of 60%.	In Person Learning	Mon Wed	2:00 p.m. - 4:00 p.m.
TRSC_V 001-001	TRSC_V	1	001	Transition School - First Year	W1-2		In Person Learning	Arranged	Arranged
TRSC_V 002-001	TRSC_V	2	001	Transition School - Second Year	W1-2	Prerequisite: [TRSC001]	In Person Learning	Arranged	Arranged
UDES_V 502-001	UDES_V	502	001	Urban Design Studio II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
UDES_V 502-L01	UDES_V	502	L01	Urban Design Studio II	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	9:30 a.m. - 12:30 p.m.
UDES_V 503-001	UDES_V	503	001	Urban Design Studio III	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Fri	1:30 p.m. - 6:00 p.m.
UDES_V 504-002	UDES_V	504	002	History and Theory of Urban Design	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	9:30 a.m. - 10:30 a.m.
UDES_V 504-T01	UDES_V	504	T01	History and Theory of Urban Design	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:30 a.m. - 12:30 p.m.
UDES_V 505-101	UDES_V	505	101	Urban Design as Public Policy: Policymaking for a Sustainable Region	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
UDES_V 506-001	UDES_V	506	001	Real Estate Economics: Development Feasibility and Financing	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:30 a.m. - 12:30 p.m.
UDES_V 509-C_201	UDES_V	509	C_201	Topics in Urban Design	W2	Faculty-initiated graduate seminars related to topics in urban design. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:30 p.m. - 5:30 p.m.
UFOR_V 100-101	UFOR_V	100	101	Greening the City	W1	Roles played by urban forestry and greenspace systems in a rapidly changing world; topics include urban ecology, urban forest conservation, urban forest management, climate change, society and human well-being, design and planning, urban/rural interface issues, and urban forest policy. [2-0-2]	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
UFOR_V 110-201	UFOR_V	110	201	Introduction to Urban Forest Design	W2	Basic concepts of landscape design as it relates to urban forestry.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
UFOR_V 200-101	UFOR_V	200	101	Urban Forests and Well-Being	W1	Basic relationships between urban residents' mental and physical well-being and their urban forest environment. [2-0-2]	In Person Learning	Mon Wed	2:00 p.m. - 3:30 p.m.
UFOR_V 220-101	UFOR_V	220	101	Urban Forest Inventory and Assessment	W1	Overview of urban forest resources: structure and composition, extent, and ecosystem services and benefits provided; introduces methods and tools for urban forest inventory, monitoring, and assessment, and how they are integrated into the planning and management of urban forests. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
UFOR_V 220-201	UFOR_V	220	201	Urban Forest Inventory and Assessment	W2	Overview of urban forest resources: structure and composition, extent, and ecosystem services and benefits provided; introduces methods and tools for urban forest inventory, monitoring, and assessment, and how they are integrated into the planning and management of urban forests. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 1:00 p.m.
UFOR_V 231-201	UFOR_V	231	201	Introductory Statistical Methods for Urban Forestry	W2	Basic theories and practice of statistical methods in an urban forestry context. Intended only for students in the Bachelor of Urban Forestry program. Students in the Bachelor of Science, Natural Resources should take NRES 231.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
UFOR_V 231-LA1	UFOR_V	231	LA1	Introductory Statistical Methods for Urban Forestry	W2	Basic theories and practice of statistical methods in an urban forestry context. Intended only for students in the Bachelor of Urban Forestry program. Students in the Bachelor of Science, Natural Resources should take NRES 231.	In Person Learning	Thu	12:00 p.m. - 2:00 p.m.

UFOR_V 300-101	UFOR_V	300	101	Arboriculture Principles and Practice	W1	Principles and practices of individual urban tree management with emphasis on underlying biological and ecological concepts, plant-environment interactions above and below ground and implications for establishment, evaluation, and conservation of individual trees in a variety of urban situations. [3-1-0] Prerequisite: Pre-req or co-req: UFOR 316 and Third-year standing.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.	
UFOR_V 300-L01	UFOR_V	300	L01	Arboriculture Principles and Practice	W1	Principles and practices of individual urban tree management with emphasis on underlying biological and ecological concepts, plant-environment interactions above and below ground and implications for establishment, evaluation, and conservation of individual trees in a variety of urban situations. [3-1-0] Prerequisite: Pre-req or co-req: UFOR 316 and Third-year standing.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.	
UFOR_V 316-101	UFOR_V	316	101	Trees and Shrubs in Landscape	W1	Identification and suitability of woody plants used in the urban environment, with a focus on biological characteristics for plant identification, criteria for species selection, and other considerations for urban woody plant cultivation. Prerequisite: One of FRST 200, NRES 200. Corequisite: All of UFOR 316, UFOR 300.	In Person Learning	Tue Thu	9:30 a.m. - 11:30 a.m.	
UFOR_V 330-201	UFOR_V	330	201	Environmental Justice and Urban Green Equity	W2	Theory, concepts and applications of urban green equity and urban environmental justice with particular focus on implications for urban forest policy, planning, management, and design. [3-0-1] Prerequisite: Third-year standing.	In Person Learning	Thu	12:30 p.m. - 3:30 p.m.	
UFOR_V 400-201	UFOR_V	400	201	Urban Forestry Field School	W2	Development of field skills, professional judgment, critical reflection, and integration of theory, practice, and policy. Offered at Malcolm Knapp Research Forest over a 7-day period in April. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of UFOR 300, UFOR 316. And third year standing in the B.U.F. program.	In Person Learning	Arranged	Arranged	
UFOR_V 401-101	UFOR_V	401	101	Integrated Urban Forestry Capstone Studio	W1-2	Integration of biophysical and socio-economic components of urban greenspace management and planning through within a collaborative holistic group project linked to a real-world urban forestry situation. This course is not eligible for Credit/D/Fail grading. [3-6-0] Prerequisite: All of UFOR 300, UFOR 400. And fourth year standing in the B.U.F. program.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.	
UFOR_V 401-DNU_101	UFOR_V	401	DNU_101	Integrated Urban Forestry Capstone Studio	W1-2	Integration of biophysical and socio-economic components of urban greenspace management and planning through within a collaborative holistic group project linked to a real-world urban forestry situation. This course is not eligible for Credit/D/Fail grading. [3-6-0] Prerequisite: All of UFOR 300, UFOR 400. And fourth year standing in the B.U.F. program.	In Person Learning	Arranged	Arranged	
UFOR_V 401-L01	UFOR_V	401	L01	Integrated Urban Forestry Capstone Studio	W1-2	Integration of biophysical and socio-economic components of urban greenspace management and planning through within a collaborative holistic group project linked to a real-world urban forestry situation. This course is not eligible for Credit/D/Fail grading. [3-6-0] Prerequisite: All of UFOR 300, UFOR 400. And fourth year standing in the B.U.F. program.	In Person Learning	Fri	3:30 p.m. - 6:30 p.m.	
UFOR_V 402-201	UFOR_V	402	201	Urban Forestry Administration, Policy and Law	W2	The administrative, legal, policy, and business environments for urban forestry governance, management, and planning. [3-1-0] Prerequisite: UFOR 300. And third year standing.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.	
UFOR_V 403-201	UFOR_V	403	201	Ecological Restoration	W2	Perspectives and practices of ecological restoration in diverse ecosystems worldwide. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FRST 201, NRES 201, BIOL 230. And third-year standing. Equivalency: APBI423	In Person Learning	Tue Thu	5:00 p.m. - 6:30 p.m.	
UFOR_V 415-101	UFOR_V	415	101	Plant Design	W1	An introduction to the design of enhanced environments through the use of plants.	In Person Learning	Wed	5:00 p.m. - 6:30 p.m.	
UFOR_V 420-101	UFOR_V	420	101	Ecology of Urban Green Infrastructure	W1	The nature and dynamics of urban ecosystems with emphasis on urban forests and greenspaces. The role of green infrastructure in urban sustainability with particular focus on the ecological impact of urban forest management, design, and policy decisions. Credit may be granted for only one of UFOR 420 or UFOR 520. [3-0-1] Prerequisite: Fourth-year standing. Equivalency: UFOR 520	In Person Learning	Arranged	Arranged	
UFOR_V 420-201	UFOR_V	420	201	Ecology of Urban Green Infrastructure	W2	The nature and dynamics of urban ecosystems with emphasis on urban forests and greenspaces. The role of green infrastructure in urban sustainability with particular focus on the ecological impact of urban forest management, design, and policy decisions. Credit may be granted for only one of UFOR 420 or UFOR 520. [3-0-1] Prerequisite: Fourth-year standing. Equivalency: UFOR 520	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
UFOR_V 444-101	UFOR_V	444	101	Green Network Planning	W1	Theory and methods of long-range green space planning for urban areas.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
UFOR_V 444-102	UFOR_V	444	102	Green Network Planning	W1	Theory and methods of long-range green space planning for urban areas.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
UFOR_V 444-103	UFOR_V	444	103	Green Network Planning	W1	Theory and methods of long-range green space planning for urban areas.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.	
UFOR_V 449-C_001	UFOR_V	449	C	C_001	Directed Studies in Urban Forestry	W1-2	In special cases and with the approval of the instructor concerned, a student may carry out directed studies on a specific topic/problems in Urban Forestry and related greenspace planning, management, or governance. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Fri	4:00 p.m. - 5:30 p.m.
UFOR_V 449-C_002	UFOR_V	449	C	C_002	Directed Studies in Urban Forestry	W1-2	In special cases and with the approval of the instructor concerned, a student may carry out directed studies on a specific topic/problems in Urban Forestry and related greenspace planning, management, or governance. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
UFOR_V 449-C_101	UFOR_V	449	C	C_101	Directed Studies in Urban Forestry	W1	In special cases and with the approval of the instructor concerned, a student may carry out directed studies on a specific topic/problems in Urban Forestry and related greenspace planning, management, or governance. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
UFOR_V 449-C_201	UFOR_V	449	C	C_201	Directed Studies in Urban Forestry	W2	In special cases and with the approval of the instructor concerned, a student may carry out directed studies on a specific topic/problems in Urban Forestry and related greenspace planning, management, or governance. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

UFOR_V 495-101	UFOR_V	495	101	Biodiversity in Urban Areas	W1	Urban centres can be designed and managed to contribute to biodiversity conservation commitments. Topics include designing human-dominated landscapes to promote biodiversity, the tools required, assessing outcomes, and the benefits and negatives of nature in the city. Prerequisite: One of FRST 201, NRES 201, BIOL 230. or permission of the instructor.	In Person Learning	Tue Thu	12:30 p.m. - 2:00 p.m.
UFOR_V 495-201	UFOR_V	495	201	Biodiversity in Urban Areas	W2	Urban centres can be designed and managed to contribute to biodiversity conservation commitments. Topics include designing human-dominated landscapes to promote biodiversity, the tools required, assessing outcomes, and the benefits and negatives of nature in the city. Prerequisite: One of FRST 201, NRES 201, BIOL 230. or permission of the instructor.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
UFOR_V 512-101	UFOR_V	512	101	Urban Forest Governance	W1	Governance theory and ways of applying a governance perspective to strategic decision-making in urban forestry. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
UFOR_V 520-101	UFOR_V	520	101	Ecology of Urban Green Infrastructure	W1	The nature and dynamics of urban ecosystems with emphasis on urban forests and greenspaces. The role of green infrastructure in urban sustainability with particular focus on the ecological impact of urban forest management, design, and policy decisions. Credit may be granted for only one of UFOR 420 or UFOR 520. This course is not eligible for Credit/D/Fail grading. [3-0-1]	Online Learning	Arranged	Arranged
UFOR_V 520-201	UFOR_V	520	201	Ecology of Urban Green Infrastructure	W2	The nature and dynamics of urban ecosystems with emphasis on urban forests and greenspaces. The role of green infrastructure in urban sustainability with particular focus on the ecological impact of urban forest management, design, and policy decisions. Credit may be granted for only one of UFOR 420 or UFOR 520. This course is not eligible for Credit/D/Fail grading. [3-0-1]	Online Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
UFOR_V 521-101	UFOR_V	521	101	Advances in Arboriculture and Urban Ecology	W1	Overview of the field and current state-of-art of arboriculture, with emphasis on current research and good practices. This course is not eligible for Credit/D/Fail grading.	Online Learning	Mon	9:00 a.m. - 10:00 a.m.
UFOR_V 522-201	UFOR_V	522	201	Urban Forest Resources and Benefits Assessment	W2	Overview of the state of the art assessment of urban forest resources and their benefits This course is not eligible for Credit/D/Fail grading. Prerequisite: UFOR 511.	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
UFOR_V 523-201	UFOR_V	523	201	Strategic Urban Forest Planning and Management	W2	Application of urban forestry concepts to strategic urban forest planning and management. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of UFOR 500, UFOR 511, UFOR 512.	Online Learning	Tue	1:30 p.m. - 3:00 p.m.
UFOR_V 531-001	UFOR_V	531	001	Master of Urban Forestry Leadership Capstone Course	W1-2	Application of urban forestry concepts and skills in a project-based learning experience. This course is not eligible for Credit/D/Fail grading. Prerequisite: FCOR 599.	Online Learning	Arranged	Arranged
UKRN_V 125-101	UKRN_V	125	101	Basic Ukrainian	W1-2		In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
UKRN_V 225-101	UKRN_V	225	101	Advanced Ukrainian	W1-2	Recommended pre-requisite: UKRN 125.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
URST_V 200-101	URST_V	200	101	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
URST_V 200-201	URST_V	200	201	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	In Person Learning	Arranged	Arranged
URST_V 200-L1A	URST_V	200	L1A	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
URST_V 200-L1B	URST_V	200	L1B	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	In Person Learning	Fri	1:00 p.m. - 2:00 p.m.
URST_V 200-L1C	URST_V	200	L1C	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	In Person Learning	Wed	2:00 p.m. - 3:00 p.m.
URST_V 200-L1D	URST_V	200	L1D	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	In Person Learning	Wed	4:00 p.m. - 5:00 p.m.
URST_V 200-L1E	URST_V	200	L1E	Cities	W1	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	In Person Learning	Fri	11:00 a.m. - 12:00 p.m.
URST_V 200-L2A	URST_V	200	L2A	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	Online Learning	Arranged	Arranged
URST_V 200-L2B	URST_V	200	L2B	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	Online Learning	Arranged	Arranged
URST_V 200-L2C	URST_V	200	L2C	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	Online Learning	Arranged	Arranged
URST_V 200-L2D	URST_V	200	L2D	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	Online Learning	Arranged	Arranged

URST_V 200-L2E	URST_V	200	L2E	Cities	W2	An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250	Online Learning	Arranged	Arranged
URST_V 352-201	URST_V	352	201	Urbanization in the Global South	W2	The role of cities in development and global capital circulation, and urban politics with emphasis on regions in Latin America, Africa, and Asia. Credit will be granted for only one of GEOG 352 or URST 352. Equivalency: GEOG 352	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
URST_V 400-201	URST_V	400	201	Seminar in Urban Studies	W2	A seminar for senior students who wish to explore some common topics of importance to urban studies from the viewpoints of several disciplines. Restricted to students with fourth-year standing or higher.	In Person Learning	Mon	11:00 a.m. - 2:00 p.m.
URST_V 400-202	URST_V	400	202	Seminar in Urban Studies	W2	A seminar for senior students who wish to explore some common topics of importance to urban studies from the viewpoints of several disciplines. Restricted to students with fourth-year standing or higher.	In Person Learning	Wed	11:00 a.m. - 2:00 p.m.
URST_V 450-201	URST_V	450	201	Urban Research	W2	Historical, legal, and quantitative analysis of urban research. Emphasis on spatial, racial, and political dynamics of urban inequality. Credit will be granted for only one of URST 450 or GEOG 450. Restricted to students with fourth-year standing or higher. Equivalency: GEOG 450	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
URSY_V 510-001	URSY_V	510	001	Urban Systems and Society	W1	Urban systems in society and economy; spatial issues; equity and social justice. Governance, policy, regulation. Globalization and international development; implications for urban systems. Urban and regional economics; infrastructure financing. Urban systems and technology; tradeoffs; socio-economic-technical systems; emerging and green technologies. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	4:00 p.m. - 7:00 p.m.
URSY_V 520-002	URSY_V	520	002	Urban Systems Analysis and Planning	W2	Planning for engineers. Demand-side planning: population and demand modelling; demand management. Supply-side planning: long term planning, strategic planning. Data, metrics, indicators and assessment. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	10:30 a.m. - 12:00 p.m.
URSY_V 540-101	URSY_V	540	101	Urban Systems Project Delivery and Economics	W1	Stakeholder practices: stakeholder engagement, public consultation, partnerships, stakeholder management, buy-in. Project delivery: project delivery options, public-private partnerships (P3), integrated project delivery (IPD), partnering. Modelling, analytical methods, and decision support: economic and risk modelling. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	1:00 p.m. - 2:30 p.m.
URSY_V 550-001	URSY_V	550	001	Infrastructure Asset Management	W2	General frameworks for infrastructure management, system-specific asset management (road conditions, pipe inspection), maintenance and renewal. Data, metrics, indicators and assessment: data sources, performance indicators, assessment, assessing condition and sustainability, multi-objective, multi-criteria decision making, performance prediction, lifecycle cost analysis (LCA), sustainability. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	3:00 p.m. - 5:00 p.m.
URSY_V 550-S01	URSY_V	550	S01	Infrastructure Asset Management	W2	General frameworks for infrastructure management, system-specific asset management (road conditions, pipe inspection), maintenance and renewal. Data, metrics, indicators and assessment: data sources, performance indicators, assessment, assessing condition and sustainability, multi-objective, multi-criteria decision making, performance prediction, lifecycle cost analysis (LCA), sustainability. This course is not eligible for Credit/D/Fail grading.	Online Learning	Wed	5:00 p.m. - 6:00 p.m.
VANT_V 140-D_V01	VANT_V	140	D	D_V01	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Fri	1:00 p.m. - 3:00 p.m.
VANT_V 140-D_V02	VANT_V	140	D	D_V02	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
VANT_V 140-D_V03	VANT_V	140	D	D_V03	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Thu	3:30 p.m. - 5:30 p.m.
VANT_V 140-D_V04	VANT_V	140	D	D_V04	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Mon	3:00 p.m. - 4:00 p.m.
VANT_V 140-D_V05	VANT_V	140	D	D_V05	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Arranged	Arranged
VANT_V 140-D_V06	VANT_V	140	D	D_V06	W2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Arranged	Arranged
VANT_V 140-D_VE1	VANT_V	140	D	D_VE1	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
VANT_V 140-D_VE2	VANT_V	140	D	D_VE2	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Wed	10:00 a.m. - 11:00 a.m.
VANT_V 140-D_VE3	VANT_V	140	D	D_VE3	W1-2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
VANT_V 140-DNU_D_V04	VANT_V	140	D	DNU_D_V04	W1	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Arranged	Arranged
VANT_V 140-DNU_D_VE1	VANT_V	140	D	DNU_D_VE1	W1	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Arranged	Arranged

VANT_V 140-DNU_D_VE2	VANT_V	140	D	DNU_D_VE2	Content and Language Enrichment Tutorials	W2	Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.	In Person Learning	Arranged	Arranged
VANT_V 148-VGM	VANT_V	148		VGM	UBC Vantage College Projects	W1-2	Projects linked to topics explored in the UBC Vantage College International Program curricula. [1-0-1; 1-0-1]	In Person Learning	Mon	10:00 a.m. - 11:30 a.m.
VANT_V 150-VE1	VANT_V	150		VE1	Sustainability and Engineering Design	W1-2	Topics in sustainability, including the impact of technology on the environment and society, and fundamentals of engineering design. Restricted to students in the UBC Vantage College Engineering Stream. [1-0-2; 1-0-2]	In Person Learning	Mon	10:00 a.m. - 11:00 a.m.
VANT_V 150-VT1	VANT_V	150		VT1	Sustainability and Engineering Design	W1-2	Topics in sustainability, including the impact of technology on the environment and society, and fundamentals of engineering design. Restricted to students in the UBC Vantage College Engineering Stream. [1-0-2; 1-0-2]	In Person Learning	Fri	2:00 p.m. - 4:00 p.m.
VANT_V 150-VT2	VANT_V	150		VT2	Sustainability and Engineering Design	W1-2	Topics in sustainability, including the impact of technology on the environment and society, and fundamentals of engineering design. Restricted to students in the UBC Vantage College Engineering Stream. [1-0-2; 1-0-2]	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
VANT_V 150-VT3	VANT_V	150		VT3	Sustainability and Engineering Design	W1-2	Topics in sustainability, including the impact of technology on the environment and society, and fundamentals of engineering design. Restricted to students in the UBC Vantage College Engineering Stream. [1-0-2; 1-0-2]	In Person Learning	Mon	2:00 p.m. - 4:00 p.m.
VGRD_V 500-001	VGRD_V	500		001	Visiting Master's Student	W1-2	Visiting Master's Student	In Person Learning	Arranged	Arranged
VGRD_V 500-101	VGRD_V	500		101	Visiting Master's Student	W1	Visiting Master's Student	In Person Learning	Arranged	Arranged
VGRD_V 500-201	VGRD_V	500		201	Visiting Master's Student	W2	Visiting Master's Student	In Person Learning	Arranged	Arranged
VGRD_V 500-301	VGRD_V	500		301	Visiting Master's Student	W1	Visiting Master's Student	In Person Learning	Arranged	Arranged
VGRD_V 600-001	VGRD_V	600		001	Visiting Doctoral Student	W1-2	Visiting Doctoral Student	In Person Learning	Arranged	Arranged
VGRD_V 600-101	VGRD_V	600		101	Visiting Doctoral Student	W1	Visiting Doctoral Student	In Person Learning	Arranged	Arranged
VGRD_V 600-201	VGRD_V	600		201	Visiting Doctoral Student	W2	Visiting Doctoral Student	In Person Learning	Arranged	Arranged
VGRD_V 699-001	VGRD_V	699		001	Joint Doctoral Research Scholar	W1-2		In Person Learning	Arranged	Arranged
VGRD_V 699-002	VGRD_V	699		002	Joint Doctoral Research Scholar	W2		In Person Learning	Arranged	Arranged
VGRD_V 699-003	VGRD_V	699		003	Joint Doctoral Research Scholar	W1		In Person Learning	Arranged	Arranged
VISA_V 110-001	VISA_V	110		001	Foundation Studio: Digital Media	W1	Foundation instruction in techniques and approaches to digital practice. The nature of digital technologies and their role in contemporary culture will be examined. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
VISA_V 110-002	VISA_V	110		002	Foundation Studio: Digital Media	W2	Foundation instruction in techniques and approaches to digital practice. The nature of digital technologies and their role in contemporary culture will be examined. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	9:00 a.m. - 10:00 a.m.
VISA_V 110-227	VISA_V	110		227	Foundation Studio: Digital Media	W2	Foundation instruction in techniques and approaches to digital practice. The nature of digital technologies and their role in contemporary culture will be examined. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	2:00 p.m. - 3:00 p.m.
VISA_V 110-L01	VISA_V	110		L01	Foundation Studio: Digital Media	W1	Foundation instruction in techniques and approaches to digital practice. The nature of digital technologies and their role in contemporary culture will be examined. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.
VISA_V 110-L02	VISA_V	110		L02	Foundation Studio: Digital Media	W1	Foundation instruction in techniques and approaches to digital practice. The nature of digital technologies and their role in contemporary culture will be examined. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	6:00 p.m. - 8:00 p.m.
VISA_V 110-L03	VISA_V	110		L03	Foundation Studio: Digital Media	W1	Foundation instruction in techniques and approaches to digital practice. The nature of digital technologies and their role in contemporary culture will be examined. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
VISA_V 110-L04	VISA_V	110		L04	Foundation Studio: Digital Media	W1	Foundation instruction in techniques and approaches to digital practice. The nature of digital technologies and their role in contemporary culture will be examined. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.



VISA_V 180-L03	VISA_V	180	L03	Foundation Studio: Approaches to Media	W1	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
VISA_V 180-L04	VISA_V	180	L04	Foundation Studio: Approaches to Media	W1	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 180-L05	VISA_V	180	L05	Foundation Studio: Approaches to Media	W1	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 180-L06	VISA_V	180	L06	Foundation Studio: Approaches to Media	W1	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Thu	5:00 p.m. - 8:00 p.m.
VISA_V 180-L07	VISA_V	180	L07	Foundation Studio: Approaches to Media	W1	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Arranged	Arranged
VISA_V 180-L08	VISA_V	180	L08	Foundation Studio: Approaches to Media	W2	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
VISA_V 180-L09	VISA_V	180	L09	Foundation Studio: Approaches to Media	W2	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
VISA_V 180-L10	VISA_V	180	L10	Foundation Studio: Approaches to Media	W2	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	5:00 p.m. - 8:00 p.m.
VISA_V 180-L11	VISA_V	180	L11	Foundation Studio: Approaches to Media	W2	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
VISA_V 180-L12	VISA_V	180	L12	Foundation Studio: Approaches to Media	W2	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
VISA_V 180-L13	VISA_V	180	L13	Foundation Studio: Approaches to Media	W2	Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
VISA_V 183-001	VISA_V	183	001	Foundation Studio: Ideas as Practice I	W1	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Thu	9:00 a.m. - 10:00 a.m.
VISA_V 183-002	VISA_V	183	002	Foundation Studio: Ideas as Practice I	W2	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Thu	2:00 p.m. - 3:00 p.m.
VISA_V 183-L01	VISA_V	183	L01	Foundation Studio: Ideas as Practice I	W1	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
VISA_V 183-L02	VISA_V	183	L02	Foundation Studio: Ideas as Practice I	W1	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
VISA_V 183-L03	VISA_V	183	L03	Foundation Studio: Ideas as Practice I	W1	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 183-L04	VISA_V	183	L04	Foundation Studio: Ideas as Practice I	W1	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
VISA_V 183-L05	VISA_V	183	L05	Foundation Studio: Ideas as Practice I	W2	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
VISA_V 183-L06	VISA_V	183	L06	Foundation Studio: Ideas as Practice I	W2	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 183-L07	VISA_V	183	L07	Foundation Studio: Ideas as Practice I	W2	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Tue	5:00 p.m. - 8:00 p.m.
VISA_V 183-L08	VISA_V	183	L08	Foundation Studio: Ideas as Practice I	W2	Contemporary art practices, emphasizing the relationship between meanings and materials, art historical contexts and concepts, and non-traditional materials. (This course is open to all UBC students, regardless of prior experience.)	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 210-001	VISA_V	210	001	Digital Arts	W1	Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 210-002	VISA_V	210	002	Digital Arts	W1	Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Arranged	Arranged

VISA_V 210-003	VISA_V	210	003	Digital Arts	W2	Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 210-004	VISA_V	210	004	Digital Arts	W2	Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Arranged	Arranged
VISA_V 210-227	VISA_V	210	227	Digital Arts	W1	Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
VISA_V 210-228	VISA_V	210	228	Digital Arts	W1	Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Fri	2:00 p.m. - 5:00 p.m.
VISA_V 220-001	VISA_V	220	001	Drawing	W1	Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 220-002	VISA_V	220	002	Drawing	W1	Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 220-003	VISA_V	220	003	Drawing	W2	Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 220-004	VISA_V	220	004	Drawing	W2	Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 230-001	VISA_V	230	001	Painting	W1	Development of a variety of techniques and approaches to painting. Emphasis on developing a strong paint vocabulary as well as acquiring knowledge of historical and contemporary issues in painting. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 230-002	VISA_V	230	002	Painting	W1	Development of a variety of techniques and approaches to painting. Emphasis on developing a strong paint vocabulary as well as acquiring knowledge of historical and contemporary issues in painting. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 230-003	VISA_V	230	003	Painting	W2	Development of a variety of techniques and approaches to painting. Emphasis on developing a strong paint vocabulary as well as acquiring knowledge of historical and contemporary issues in painting. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 230-004	VISA_V	230	004	Painting	W2	Development of a variety of techniques and approaches to painting. Emphasis on developing a strong paint vocabulary as well as acquiring knowledge of historical and contemporary issues in painting. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 240-001	VISA_V	240	001	Photography	W1	Introduction to photography techniques and image-making. Emphasis on camera techniques and film and darkroom production. Only one of VISA 240 or VISA 241 may be used toward requirements for Major, Minor, or Honours programs in Visual Arts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 241-001	VISA_V	241	001	Digital Photography	W1	Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital camera use, file management, and digital print production. Only one of VISA 240 or VISA 241 may be used toward requirements for Major, Minor, or Honours programs in Visual Arts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 241-002	VISA_V	241	002	Digital Photography	W2	Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital camera use, file management, and digital print production. Only one of VISA 240 or VISA 241 may be used toward requirements for Major, Minor, or Honours programs in Visual Arts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 241-227	VISA_V	241	227	Digital Photography	W2	Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital camera use, file management, and digital print production. Only one of VISA 240 or VISA 241 may be used toward requirements for Major, Minor, or Honours programs in Visual Arts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
VISA_V 241-228	VISA_V	241	228	Digital Photography	W2	Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital camera use, file management, and digital print production. Only one of VISA 240 or VISA 241 may be used toward requirements for Major, Minor, or Honours programs in Visual Arts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 250-001	VISA_V	250	001	Print Media	W1	Visual print culture, and contemporary and historical technical print practices. Emphasis on hand-drawn intaglio, relief, screen and/or stencil printing, and graphic digital applications. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
VISA_V 250-002	VISA_V	250	002	Print Media	W1	Visual print culture, and contemporary and historical technical print practices. Emphasis on hand-drawn intaglio, relief, screen and/or stencil printing, and graphic digital applications. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 250-003	VISA_V	250	003	Print Media	W2	Visual print culture, and contemporary and historical technical print practices. Emphasis on hand-drawn intaglio, relief, screen and/or stencil printing, and graphic digital applications. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 260-001	VISA_V	260	001	Sculpture	W1	Contemporary sculpture practice and theory. Various sculpture materials and technologies including machinery use. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 260-002	VISA_V	260	002	Sculpture	W1	Contemporary sculpture practice and theory. Various sculpture materials and technologies including machinery use. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.

VISA_V 260-003	VISA_V	260	003	Sculpture	W2	Contemporary sculpture practice and theory. Various sculpture materials and technologies including machinery use. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
VISA_V 280-001	VISA_V	280	001	Contemporary Art: Ideas as Practice II	W1	Development and history of contemporary art practice, with a focus on how artists realize and exchange ideas. Intended for second year BFA VISA students. Prerequisite: A score of 72% or higher in VISA 183.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
VISA_V 310-001	VISA_V	310	001	Intermediate Digital Arts I	W1	Exploring issues and topics in interactive digital media and culture through the creation of critical contemporary art. Includes technical instruction with a focus on the development of individual and group projects. Prerequisite: One of VISA 210, VISA 287, FINA 287.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 310-002	VISA_V	310	002	Intermediate Digital Arts I	W2	Exploring issues and topics in interactive digital media and culture through the creation of critical contemporary art. Includes technical instruction with a focus on the development of individual and group projects. Prerequisite: One of VISA 210, VISA 287, FINA 287.	In Person Learning	Arranged	Arranged
VISA_V 311-001	VISA_V	311	001	Intermediate Digital Arts II	W2	Investigation of issues and topics in digital media and visual culture through the production of contemporary video art. Technical instruction in video manipulation software. Individual and/or group projects. Prerequisite: One of VISA 240, VISA 241.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
VISA_V 320-001	VISA_V	320	001	Intermediate Drawing I	W1	Investigation of drawing as a discipline in the context of contemporary art. Emphasis on expanding definitions of the drawing practice while focusing on technical and conceptual development. Prerequisite: One of VISA 220, VISA 281, FINA 281.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 321-001	VISA_V	321	001	Intermediate Drawing II	W2	Investigation of drawing as a discipline in the context of contemporary art and theory. Emphasis on self-directed projects in consultation with the instructor. Prerequisite: One of VISA 220, VISA 281, FINA 281.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 330-001	VISA_V	330	001	Intermediate Painting I	W1	Development of techniques and personal style in relation to ideas. History and contemporary issues in painting will be introduced to assist students in conceptualizing their painting practice. Prerequisite: One of VISA 230, VISA 282, FINA 282.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
VISA_V 330-002	VISA_V	330	002	Intermediate Painting I	W2	Development of techniques and personal style in relation to ideas. History and contemporary issues in painting will be introduced to assist students in conceptualizing their painting practice. Prerequisite: One of VISA 230, VISA 282, FINA 282.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 331-001	VISA_V	331	001	Intermediate Painting II	W2	Further investigation of painting in the context of contemporary art. Emphasis on self directed projects in consultation with the instructor. Prerequisite: One of VISA 230, VISA 282, FINA 282.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
VISA_V 340-001	VISA_V	340	001	Intermediate Photography I	W1	An investigation of approaches to photography and its meaning in the context of contemporary art. The term theme will be determined by the instructor. B & W, colour and digital production. Prerequisite: One of VISA 240, VISA 241.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 340-002	VISA_V	340	002	Intermediate Photography I	W2	An investigation of approaches to photography and its meaning in the context of contemporary art. The term theme will be determined by the instructor. B & W, colour and digital production. Prerequisite: One of VISA 240, VISA 241.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
VISA_V 341-001	VISA_V	341	001	Intermediate Photography II	W2	An investigation of contemporary photography production and approaches to the constructed image with emphasis on medium and large format camera use and studio lighting techniques. Prerequisite: One of VISA 240, VISA 241.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 350-001	VISA_V	350	001	Intermediate Print Media I: Interdisciplinary Approaches to Image Production	W1	Intaglio and relief print applications (i.e., etching, wood and/or lino cut, and collagraph) in combination with digital and photographic technologies, and drawing; discussion of contemporary and historical visual print culture. Prerequisite: Either (a) VISA 250 or (b) one of VISA 290, VISA 283, VISA 284, FINA 290, FINA 283, FINA 284.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
VISA_V 351-001	VISA_V	351	001	Intermediate Print Media II: Interdisciplinary Approaches to Image Production	W2	Screen printing and other print applications in combination with digital and photographic technologies, and drawing, explored within the context of contemporary art. Prerequisite: Either (a) VISA 250 or (b) one of VISA 283, VISA 284, VISA 290, FINA 283, FINA 284, FINA 290.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 360-001	VISA_V	360	001	Intermediate Sculpture I	W1	Investigation of contemporary practices in sculpture and the use of scale. Emphasis on public sculpture. Prerequisite: One of VISA 260, VISA 285, VISA 286, FINA 285, FINA 286.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 370-A_001	VISA_V	370	A	A_001	W2	Intermediate tutorial. Not offered every year. Prerequisite: 6 credits of 200-level VISA.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 376-001	VISA_V	376	001	Artist Books as Form and Idea	W2	Approaches to book creation from the perspective of contemporary art and exploration of the artist book as an expansion of both art and books. Prerequisite: 3 credits of any 200-level VISA course.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 380-001	VISA_V	380	001	Studio Theory	W1	A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 10:00 a.m.
VISA_V 380-L01	VISA_V	380	L01	Studio Theory	W1	A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
VISA_V 380-L02	VISA_V	380	L02	Studio Theory	W1	A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
VISA_V 380-L03	VISA_V	380	L03	Studio Theory	W1	A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
VISA_V 390-001	VISA_V	390	001	Performance Art	W1	Seminar-based studio focusing on performance and actions in the field of contemporary art. Prerequisite: 6 credits of 200-level VISA with an average of at least 72%.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.

VISA_V 390-002	VISA_V	390		002	Performance Art	W2	Seminar-based studio focusing on performance and actions in the field of contemporary art. Prerequisite: 6 credits of 200-level VISA with an average of at least 72%.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 401-A_001	VISA_V	401	A	A_001	Advanced Open Studio	W1	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Mon	2:00 p.m. - 5:00 p.m.
VISA_V 401-B_001	VISA_V	401	B	B_001	Advanced Open Studio	W1	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
VISA_V 401-C_001	VISA_V	401	C	C_001	Advanced Open Studio	W1	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 401-D_001	VISA_V	401	D	D_001	Advanced Open Studio	W1	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Wed	9:00 a.m. - 12:00 p.m.
VISA_V 401-E_001	VISA_V	401	E	E_001	Advanced Open Studio	W1	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Thu	2:00 p.m. - 5:00 p.m.
VISA_V 401-F_001	VISA_V	401	F	F_001	Advanced Open Studio	W2	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Mon	9:00 a.m. - 12:00 p.m.
VISA_V 401-G_001	VISA_V	401	G	G_001	Advanced Open Studio	W2	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
VISA_V 401-H_001	VISA_V	401	H	H_001	Advanced Open Studio	W2	Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art undergraduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 340, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 475-001	VISA_V	475		001	Exhibition Theory and Practice	W2	Exhibition course focusing on current curatorial practices and theories with an emphasis on contemporary visual art with the aim of preparing students to engage in the active organization of a large exhibition. Restricted to 4th year Majors in either VISA or ARTH, or permission of the instructor. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
VISA_V 479-001	VISA_V	479		001	Performance Actions and Approaches	W2	Advanced performance art practices and research methodologies. Credit will be granted for only one of VISA 479 or ARTH 479. This course is not eligible for Credit/D/Fail grading. Equivalency: ARTH479	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
VISA_V 480-001	VISA_V	480		001	Advanced Seminar I	W1	Readings in art theory and criticism. This course is not eligible for Credit/D/Fail grading. Prerequisite: VISA 380.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 481-001	VISA_V	481		001	Advanced Seminar II	W2	Readings in art theory and criticism. This course is not eligible for Credit/D/Fail grading. Prerequisite: VISA 480.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 490-001	VISA_V	490		001	Advanced Tutorial in Studio I	W1	Advanced work in contemporary and historical aspects of studio practice. Permission of instructor required. Not offered every year. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of 300-level VISA and 3 credits of 400-level VISA.	In Person Learning	Arranged	Arranged
VISA_V 490-002	VISA_V	490		002	Advanced Tutorial in Studio I	W1-2	Advanced work in contemporary and historical aspects of studio practice. Permission of instructor required. Not offered every year. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of 300-level VISA and 3 credits of 400-level VISA.	In Person Learning	Arranged	Arranged
VISA_V 491-001	VISA_V	491		001	Advanced Tutorial in Studio II	W1	Advanced work in contemporary and historical aspects of studio practice. Permission of instructor required. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of 300-level VISA and 3 credits of 400-level VISA.	In Person Learning	Arranged	Arranged
VISA_V 491-002	VISA_V	491		002	Advanced Tutorial in Studio II	W2	Advanced work in contemporary and historical aspects of studio practice. Permission of instructor required. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits of 300-level VISA and 3 credits of 400-level VISA.	In Person Learning	Mon	8:00 a.m. - 9:00 a.m.
VISA_V 580-001	VISA_V	580		001	Major Essay	W1-2	M.F.A. only.	In Person Learning	Arranged	Arranged
VISA_V 580-002	VISA_V	580		002	Major Essay	W1	M.F.A. only.	In Person Learning	Arranged	Arranged
VISA_V 581-001	VISA_V	581		001	MFA Studio V	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.
VISA_V 582-001	VISA_V	582		001	MFA Studio VI	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	2:00 p.m. - 5:00 p.m.

VISA_V 583-A_001	VISA_V	583	A	A_001	MFA Research Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
VISA_V 583-B_001	VISA_V	583	B	B_001	MFA Research Seminar	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	9:00 a.m. - 12:00 p.m.
VISA_V 590-A_001	VISA_V	590	A	A_001	Directed Studies in Visual Art	W1	Tutorial work in visual arts and theory arranged by permission with an individual faculty member. Not available to students enrolled in the M.F.A. program in Visual Arts. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
VISA_V 590-A_002	VISA_V	590	A	A_002	Directed Studies in Visual Art	W2	Tutorial work in visual arts and theory arranged by permission with an individual faculty member. Not available to students enrolled in the M.F.A. program in Visual Arts. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
VURS_V 499-001	VURS_V	499		001	Visiting Undergraduate Students	W1	Visiting Undergraduate Students	In Person Learning	Arranged	Arranged
VURS_V 499-002	VURS_V	499		002	Visiting Undergraduate Students	W2	Visiting Undergraduate Students	In Person Learning	Arranged	Arranged
VURS_V 499-003	VURS_V	499		003	Visiting Undergraduate Students	W1-2	Visiting Undergraduate Students	In Person Learning	Arranged	Arranged
WACH_V 502-001	WACH_V	502		001	Seminars in Women+ and Children's Health	W1	Biological and social determinants of health, health equity and inclusion. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue	12:00 p.m. - 1:30 p.m.
WACH_V 503-001	WACH_V	503		001	Perinatal Epidemiology	W1	Indicators of maternal/newborn well-being across population subgroups, changing trends in obstetrical intervention, perinatal morbidity, and the analysis of perinatal data. This course is not eligible for Credit/D/Fail grading. Equivalency: SPPH537, OBST507	In Person Learning	Wed	1:30 p.m. - 4:30 p.m.
WACH_V 504-001	WACH_V	504		001	Critical Appraisal of Research in Reproductive and Children's Health Sciences	W1	Principles of critical thinking and appraisal of medical literature with respect to study design and causal inference. Credit will be granted for only one of OBST 509 or WACH 504. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
WACH_V 511-001	WACH_V	511		001	Women+ Health Research	W2	Sexual development, transgender medicine, reproduction and pregnancy, chronic and acute diseases, and social determinants of health. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:30 p.m. - 4:00 p.m.
WACH_V 514-001	WACH_V	514		001	Overview of Gynecologic Oncology	W2	Molecular biology, epidemiology, prevention, and treatment of gynecologic cancers, including uterine cancer, vulvar/vaginal cancer, cervical cancer, ovarian cancer, and how to incorporate the patient experience into research. Credit will be granted for only one of OBST 512 or WACH 514. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
WACH_V 521-001	WACH_V	521		001	Child Health Research	W1	Biology of human development, child growth and puberty, adolescent health, childhood chronic and acute diseases, gender diversity in pediatrics, social environment and child health, and pediatric research in partnership with Indigenous communities. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
WACH_V 522-001	WACH_V	522		001	Pediatric Nutrition	W2	Dietary assessment and nutrient requirements in children and youth, assessment of growth and adiposity, application of nutritional biochemistry and animal models, energy balance, macronutrient and micronutrient metabolism and research, restricted diets in children, nutritional interventions in children. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:00 a.m. - 10:30 a.m.
WACH_V 531-001	WACH_V	531		001	Reproductive Endocrinology	W1	Neuroendocrine regulation of reproduction, regulation of the ovarian and testicular function. This course is not eligible for Credit/D/Fail grading. Equivalency: OBST501	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.
WACH_V 533-001	WACH_V	533		001	Fetal and Perinatal Metabolism	W2	Nutrient metabolism and requirements during fetal and perinatal development and research methods used to assess requirements; developmental origins of health and disease; gestational obesity and diabetes; nutritional supplements during pregnancy. This course is not eligible for Credit/D/Fail grading. Equivalency: OBST503	In Person Learning	Mon	9:00 a.m. - 10:30 a.m.
WACH_V 549-001	WACH_V	549		001	M.Sc. Thesis	W1-2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
WACH_V 549-002	WACH_V	549		002	M.Sc. Thesis	W1	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
WACH_V 549-003	WACH_V	549		003	M.Sc. Thesis	W2	Pass/Fail. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
WACH_V 649-001	WACH_V	649		001	Ph.D. Thesis	W1-2		In Person Learning	Arranged	Arranged
WACH_V 649-002	WACH_V	649		002	Ph.D. Thesis	W1		In Person Learning	Arranged	Arranged
WACH_V 649-003	WACH_V	649		003	Ph.D. Thesis	W2		In Person Learning	Arranged	Arranged

WOOD_V 120-101	WOOD_V	120	101	Introduction to Wood Products and Global Trade	W1	Introduction to forestry, wood products industry, processes, products, markets and global trade policy issues affecting the wood industry. Not available for credit to students in the B.S.F. degree. [2-3]	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
WOOD_V 120-L01	WOOD_V	120	L01	Introduction to Wood Products and Global Trade	W1	Introduction to forestry, wood products industry, processes, products, markets and global trade policy issues affecting the wood industry. Not available for credit to students in the B.S.F. degree. [2-3]	In Person Learning	Thu	1:00 p.m. - 4:00 p.m.
WOOD_V 225-203	WOOD_V	225	203	Communications Strategies	W2	Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry, particularly in Wood Products Processing. Planning, drafting and editing of professional-quality documents for specialists and other stakeholders. Developing oral presentation skills. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of FRST 150, NRES 150, LFS 150, WRDS 150. or ENGL 1st or WRCM 1st.	In Person Learning	Arranged	Arranged
WOOD_V 244-001	WOOD_V	244	001	Quantitative Methods in the Wood Industry	W1	Solving practical problems in the wood industry using computer-based mathematical tools including spreadsheets, visual basic programming and relational database systems. [3-2-0] Prerequisite: One of MATH 101, MATH 121.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
WOOD_V 244-L01	WOOD_V	244	L01	Quantitative Methods in the Wood Industry	W1	Solving practical problems in the wood industry using computer-based mathematical tools including spreadsheets, visual basic programming and relational database systems. [3-2-0] Prerequisite: One of MATH 101, MATH 121.	In Person Learning	Tue	12:00 p.m. - 2:00 p.m.
WOOD_V 245-201	WOOD_V	245	201	Programming for Wood Products Manufacturing Applications	W2	Practical computer and problem solving cases taken from wood products manufacturing industrial applications. [2-4-0] Prerequisite: WOOD 244.	In Person Learning	Mon	1:00 p.m. - 3:00 p.m.
WOOD_V 245-L01	WOOD_V	245	L01	Programming for Wood Products Manufacturing Applications	W2	Practical computer and problem solving cases taken from wood products manufacturing industrial applications. [2-4-0] Prerequisite: WOOD 244.	In Person Learning	Wed Fri	1:00 p.m. - 3:00 p.m.
WOOD_V 276-101	WOOD_V	276	101	Mechanics of Wood Products	W1	Introduction to the strength of materials with emphasis on the elastic properties and ultimate strength of wood and wood products. [3-2-0] Prerequisite: One of PHYS 117, PHYS 131, PHYS 170 and one of MATH 101, MATH 121.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
WOOD_V 276-L01	WOOD_V	276	L01	Mechanics of Wood Products	W1	Introduction to the strength of materials with emphasis on the elastic properties and ultimate strength of wood and wood products. [3-2-0] Prerequisite: One of PHYS 117, PHYS 131, PHYS 170 and one of MATH 101, MATH 121.	In Person Learning	Tue	10:00 a.m. - 12:00 p.m.
WOOD_V 280-101	WOOD_V	280	101	Wood Anatomy and Identification	W1	Introduction to tree growth; macroscopic and microscopic anatomy and identification of softwoods and hardwoods; descriptions of cell wall ultra-structure, wood variability and wood quality. [3-2-0]	In Person Learning	Mon Wed Fri	10:00 a.m. - 11:00 a.m.
WOOD_V 280-L01	WOOD_V	280	L01	Wood Anatomy and Identification	W1	Introduction to tree growth; macroscopic and microscopic anatomy and identification of softwoods and hardwoods; descriptions of cell wall ultra-structure, wood variability and wood quality. [3-2-0]	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
WOOD_V 282-201	WOOD_V	282	201	Wood Physics and Mechanics	W2	Wood-moisture relationships, transport phenomena, acoustical and electrical properties of wood. Effects of wood attributes at macro- and micro-levels on the strength properties of solid wood. [3-2-0] Prerequisite: [WOOD280]	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
WOOD_V 282-L01	WOOD_V	282	L01	Wood Physics and Mechanics	W2	Wood-moisture relationships, transport phenomena, acoustical and electrical properties of wood. Effects of wood attributes at macro- and micro-levels on the strength properties of solid wood. [3-2-0] Prerequisite: [WOOD280]	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
WOOD_V 290-201	WOOD_V	290	201	Secondary Wood Products Manufacturing	W2	Basic secondary wood products manufacturing. Focus on producing and joining lumber, edging, drilling, veneers and CNC equipment. [2-3-0] Prerequisite: [WOOD120]	In Person Learning	Wed	10:00 a.m. - 12:00 p.m.
WOOD_V 290-L01	WOOD_V	290	L01	Secondary Wood Products Manufacturing	W2	Basic secondary wood products manufacturing. Focus on producing and joining lumber, edging, drilling, veneers and CNC equipment. [2-3-0] Prerequisite: [WOOD120]	In Person Learning	Tue	2:00 p.m. - 5:00 p.m.
WOOD_V 292-201	WOOD_V	292	201	Two-Dimensional and Solid Computer-Aided Graphics	W2	Computer-aided graphics software used in the wood products sector. Visualization of product designs and specifications in two and three dimensions. This course is not eligible for Credit/D/Fail grading. [0-4]	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.
WOOD_V 292-L01	WOOD_V	292	L01	Two-Dimensional and Solid Computer-Aided Graphics	W2	Computer-aided graphics software used in the wood products sector. Visualization of product designs and specifications in two and three dimensions. This course is not eligible for Credit/D/Fail grading. [0-4]	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
WOOD_V 310-101	WOOD_V	310	101	Co-operative Work Placement	W1	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the Co-op Coordinator.	In Person Learning	Arranged	Arranged
WOOD_V 311-101	WOOD_V	311	101	Co-operative Work Placement II	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing. This course is not eligible for Credit/D/Fail grading. Prerequisite: WOOD 300.	In Person Learning	Arranged	Arranged
WOOD_V 330-101	WOOD_V	330	101	Industrial Engineering	W1	Use of industrial engineering concepts and methods to analyze and improve organizations, including operations strategy and competitiveness, quality control, work measurement, inventory management, linear programming, sensitivity analysis, transportation problems, and capacity planning. [3-2-0] Prerequisite: One of ECON 101, FRST 101 and one of FRST 231, NRES 231.	In Person Learning	Tue Thu	9:00 a.m. - 10:00 a.m.
WOOD_V 330-L01	WOOD_V	330	L01	Industrial Engineering	W1	Use of industrial engineering concepts and methods to analyze and improve organizations, including operations strategy and competitiveness, quality control, work measurement, inventory management, linear programming, sensitivity analysis, transportation problems, and capacity planning. [3-2-0] Prerequisite: One of ECON 101, FRST 101 and one of FRST 231, NRES 231.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.

WOOD_V 335-101	WOOD_V	335	101	Quality Improvement	W1	Modern techniques for improving quality in the workplace with particular emphasis on the forest products industry. Topics include quality control management, control charting, continuous improvement and analysis of variance techniques. [2-2-0] Prerequisite: One of FRST 231, NRES 231.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.	
WOOD_V 335-101	WOOD_V	335	L01	Quality Improvement	W1	Modern techniques for improving quality in the workplace with particular emphasis on the forest products industry. Topics include quality control management, control charting, continuous improvement and analysis of variance techniques. [2-2-0] Prerequisite: One of FRST 231, NRES 231.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.	
WOOD_V 356-101	WOOD_V	356	101	Machine Components	W1	Machines used for wood products manufacturing, design, maintenance, purchasing. Selection of components including drives, bearings, brakes, clutches, fasteners, springs. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: WOOD 276.	In Person Learning	Mon Wed	10:00 a.m. - 11:00 a.m.	
WOOD_V 356-101	WOOD_V	356	L01	Machine Components	W1	Machines used for wood products manufacturing, design, maintenance, purchasing. Selection of components including drives, bearings, brakes, clutches, fasteners, springs. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: WOOD 276.	In Person Learning	Tue	10:30 a.m. - 12:30 p.m.	
WOOD_V 365-201	WOOD_V	365	201	Wood Industry Business Management	W2	Business management concepts common in the forest products industry including marketing, customer research, product development and design. [3-0-2]	In Person Learning	Tue Thu	4:00 p.m. - 5:30 p.m.	
WOOD_V 365-101	WOOD_V	365	L01	Wood Industry Business Management	W2	Business management concepts common in the forest products industry including marketing, customer research, product development and design. [3-0-2]	In Person Learning	Mon	4:00 p.m. - 6:00 p.m.	
WOOD_V 373-101	WOOD_V	373	101	Wood Adhesives and Coatings	W1	Introduction to structure and properties of polymers and wood finishes; chemistry of adhesives and preservatives. [2-3-0] Prerequisite: One of CHEM 113, CHEM 123.	In Person Learning	Mon Wed	2:00 p.m. - 3:00 p.m.	
WOOD_V 373-101	WOOD_V	373	L01	Wood Adhesives and Coatings	W1	Introduction to structure and properties of polymers and wood finishes; chemistry of adhesives and preservatives. [2-3-0] Prerequisite: One of CHEM 113, CHEM 123.	In Person Learning	Fri	12:00 p.m. - 3:00 p.m.	
WOOD_V 384-101	WOOD_V	384	101	Wood Sawmilling and Drying	W1	Introduction to primary log breakdown systems and lumber material flow in modern sawmills and planermills. Lumber drying equipment and methods. [3-2] Prerequisite: WOOD 282.	In Person Learning	Mon Wed	12:30 p.m. - 2:00 p.m.	
WOOD_V 384-101	WOOD_V	384	L01	Wood Sawmilling and Drying	W1	Introduction to primary log breakdown systems and lumber material flow in modern sawmills and planermills. Lumber drying equipment and methods. [3-2] Prerequisite: WOOD 282.	In Person Learning	Tue	2:00 p.m. - 4:00 p.m.	
WOOD_V 386-101	WOOD_V	386	101	Applied Mechanics of Materials	W1	Beam analysis, shaft analysis, columns, stress/strain transformations, thin-walled pressure vessels, material strength failure, criteria, fatigue, design and sizing, ISO standards. [2-2-0] Prerequisite: WOOD 276.	In Person Learning	Mon Wed	3:00 p.m. - 4:00 p.m.	
WOOD_V 386-101	WOOD_V	386	L01	Applied Mechanics of Materials	W1	Beam analysis, shaft analysis, columns, stress/strain transformations, thin-walled pressure vessels, material strength failure, criteria, fatigue, design and sizing, ISO standards. [2-2-0] Prerequisite: WOOD 276.	In Person Learning	Thu	2:00 p.m. - 4:00 p.m.	
WOOD_V 400-201	WOOD_V	400	201	Co-operative Work Placement	W2	Approved and supervised work experience with a public or private organization for a minimum of 13 weeks fulltime. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the Co-op Coordinator.	In Person Learning	Arranged	Arranged	
WOOD_V 412-101	WOOD_V	412	101	Co-operative Work Placement V	W1	Approved and supervised work experience with a public or private organization for minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing. This course is not eligible for Credit/D/Fail grading. Prerequisite: WOOD 411.	In Person Learning	Arranged	Arranged	
WOOD_V 440-101	WOOD_V	440	101	Engineering Economics	W1	Use of engineering economics to evaluate investment proposals of an engineering nature, including decision making processes, time value of money, cash flow analysis, comparison methods, depreciation, replacement analysis, taxes, inflation and sensitivity analysis. [3-1] Prerequisite: [WOOD330]	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.	
WOOD_V 440-101	WOOD_V	440	L01	Engineering Economics	W1	Use of engineering economics to evaluate investment proposals of an engineering nature, including decision making processes, time value of money, cash flow analysis, comparison methods, depreciation, replacement analysis, taxes, inflation and sensitivity analysis. [3-1] Prerequisite: [WOOD330]	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.	
WOOD_V 449-C_101	WOOD_V	449	C	C_101	Directed Studies in Wood Products Processing	W1	In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in wood products processing. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
WOOD_V 449-C_201	WOOD_V	449	C	C_201	Directed Studies in Wood Products Processing	W2	In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in wood products processing. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
WOOD_V 461-201	WOOD_V	461	201	Globalization and Sustainability	W2	Examination of globalization and its impact on sustainability, including social, economic, and environmental aspects. [3-1] Prerequisite: At least third-year standing.	In Person Learning	Wed	9:00 a.m. - 11:00 a.m.	
WOOD_V 461-101	WOOD_V	461	L01	Globalization and Sustainability	W2	Examination of globalization and its impact on sustainability, including social, economic, and environmental aspects. [3-1] Prerequisite: At least third-year standing.	In Person Learning	Mon	9:00 a.m. - 11:00 a.m.	
WOOD_V 461-102	WOOD_V	461	L02	Globalization and Sustainability	W2	Examination of globalization and its impact on sustainability, including social, economic, and environmental aspects. [3-1] Prerequisite: At least third-year standing.	In Person Learning	Fri	9:00 a.m. - 11:00 a.m.	
WOOD_V 464-201	WOOD_V	464	201	Wood Finishing and Protection	W2	Introduction to polymeric coatings and finishes used in the wood products industry; surface preparation, application equipment and properties of various coatings; wood deterioration and its protection for external applications. [1-3-2] Prerequisite: All of WOOD 282, WOOD 373.	In Person Learning	Mon	10:00 a.m. - 12:00 p.m.	

WOOD_V 482-201	WOOD_V	482	201	CAD/CAM	W2	Introduction to computer assisted design and manufacturing with a focus on the fundamental issues of geometry and machine tools including an understanding of standard computer tools. Applications to secondary wood products manufacturing. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: All of WOOD 290, WOOD 292.	In Person Learning	Mon Wed Fri	3:00 p.m. - 4:00 p.m.
WOOD_V 482-LA1	WOOD_V	482	LA1	CAD/CAM	W2	Introduction to computer assisted design and manufacturing with a focus on the fundamental issues of geometry and machine tools including an understanding of standard computer tools. Applications to secondary wood products manufacturing. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: All of WOOD 290, WOOD 292.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
WOOD_V 482-LA2	WOOD_V	482	LA2	CAD/CAM	W2	Introduction to computer assisted design and manufacturing with a focus on the fundamental issues of geometry and machine tools including an understanding of standard computer tools. Applications to secondary wood products manufacturing. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: All of WOOD 290, WOOD 292.	In Person Learning	Thu	11:00 a.m. - 2:00 p.m.
WOOD_V 485-101	WOOD_V	485	101	Furniture Construction	W1	The theory and practice of modern construction techniques used in the manufacture of furniture and cabinets. [3-1] Prerequisite: All of WOOD 292, WOOD 305.	In Person Learning	Tue	9:00 a.m. - 12:00 p.m.
WOOD_V 485-L01	WOOD_V	485	L01	Furniture Construction	W1	The theory and practice of modern construction techniques used in the manufacture of furniture and cabinets. [3-1] Prerequisite: All of WOOD 292, WOOD 305.	In Person Learning	Fri	10:00 a.m. - 11:00 a.m.
WOOD_V 487-201	WOOD_V	487	201	Wood Composites	W2	Physical, chemical and mechanical variables involved in adhesive bonding of composite wood products; characteristics of adhesives; plywood, composite wood panels, hardboard, medium density fibreboard, laminated wood and engineered lumber composites manufacturing processes; important physical and chemical properties of products. [2-3-0] Prerequisite: WOOD 373.	In Person Learning	Fri	10:00 a.m. - 12:00 p.m.
WOOD_V 487-L01	WOOD_V	487	L01	Wood Composites	W2	Physical, chemical and mechanical variables involved in adhesive bonding of composite wood products; characteristics of adhesives; plywood, composite wood panels, hardboard, medium density fibreboard, laminated wood and engineered lumber composites manufacturing processes; important physical and chemical properties of products. [2-3-0] Prerequisite: WOOD 373.	In Person Learning	Tue	11:00 a.m. - 2:00 p.m.
WOOD_V 487-L02	WOOD_V	487	L02	Wood Composites	W2	Physical, chemical and mechanical variables involved in adhesive bonding of composite wood products; characteristics of adhesives; plywood, composite wood panels, hardboard, medium density fibreboard, laminated wood and engineered lumber composites manufacturing processes; important physical and chemical properties of products. [2-3-0] Prerequisite: WOOD 373.	In Person Learning	Thu	11:00 a.m. - 2:00 p.m.
WOOD_V 488-101	WOOD_V	488	101	Wood Products Design and Development I	W1	Introduction to wood products design, from the product idea to the production-ready design. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: All of WOOD 305, WOOD 482, WOOD 485.	In Person Learning	Tue	2:30 p.m. - 5:30 p.m.
WOOD_V 491-201	WOOD_V	491	201	Environmental Facilities Design	W2	Introduction to pneumatic and hydraulic power, design and selection of waste recycling systems, boilers, energy generation and environmental legislation. [3-2] Prerequisite: Fourth-year standing.	In Person Learning	Mon Wed	12:00 p.m. - 1:30 p.m.
WOOD_V 491-L01	WOOD_V	491	L01	Environmental Facilities Design	W2	Introduction to pneumatic and hydraulic power, design and selection of waste recycling systems, boilers, energy generation and environmental legislation. [3-2] Prerequisite: Fourth-year standing.	In Person Learning	Fri	12:00 p.m. - 2:00 p.m.
WOOD_V 492-101	WOOD_V	492	101	Modelling for Decision Support	W1	Applications of mathematical modelling, optimization, and simulation in forest planning and manufacturing; formulating models and interpreting results for decision support. [3-3] Prerequisite: One of FRST 232, NRES 232, WOOD 245.	In Person Learning	Mon Wed	11:00 a.m. - 12:00 p.m.
WOOD_V 492-L01	WOOD_V	492	L01	Modelling for Decision Support	W1	Applications of mathematical modelling, optimization, and simulation in forest planning and manufacturing; formulating models and interpreting results for decision support. [3-3] Prerequisite: One of FRST 232, NRES 232, WOOD 245.	In Person Learning	Fri	11:00 a.m. - 1:00 p.m.
WOOD_V 494-101	WOOD_V	494	101	Principles of Wood Cutting and Tooling	W1	Wood cutting fundamentals, chip formation, cutting conditions, cutting edge maintenance, sawing, planing and molding, veneer cutting, chipping, turning. [2-3-0] Prerequisite: WOOD 356.	In Person Learning	Mon Wed Fri	2:00 p.m. - 3:00 p.m.
WOOD_V 494-L01	WOOD_V	494	L01	Principles of Wood Cutting and Tooling	W1	Wood cutting fundamentals, chip formation, cutting conditions, cutting edge maintenance, sawing, planing and molding, veneer cutting, chipping, turning. [2-3-0] Prerequisite: WOOD 356.	In Person Learning	Thu	9:00 a.m. - 12:00 p.m.
WOOD_V 499-201	WOOD_V	499	201	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Mon Wed	3:00 p.m. - 5:00 p.m.
WOOD_V 499-202	WOOD_V	499	202	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
WOOD_V 499-203	WOOD_V	499	203	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
WOOD_V 499-204	WOOD_V	499	204	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
WOOD_V 499-205	WOOD_V	499	205	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.

WOOD_V 499-206	WOOD_V	499		206	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
WOOD_V 499-207	WOOD_V	499		207	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
WOOD_V 499-208	WOOD_V	499		208	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
WOOD_V 499-L01	WOOD_V	499		L01	Wood Products Capstone	W2	Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440. and fourth-year standing in Wood Products Processing.	In Person Learning	Tue Thu	9:00 a.m. - 11:00 a.m.
WOOD_V 570-C_001	WOOD_V	570	C	C_001	Directed Studies in Wood Science and Forest Products	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
WOOD_V 570-C_102	WOOD_V	570	C	C_102	Directed Studies in Wood Science and Forest Products	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Mon Wed	1:00 p.m. - 2:00 p.m.
WOOD_V 570-C_201	WOOD_V	570	C	C_201	Directed Studies in Wood Science and Forest Products	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
WOOD_V 570-C_L02	WOOD_V	570	C	C_L02	Directed Studies in Wood Science and Forest Products	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
WOOD_V 572-C_102	WOOD_V	572	C	C_102	Topics in Wood Science and Forest Products	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:00 a.m. - 10:00 a.m.
WOOD_V 572-C_L02	WOOD_V	572	C	C_L02	Topics in Wood Science and Forest Products	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	1:00 p.m. - 3:00 p.m.
WOOD_V 573-201	WOOD_V	573		201	Advanced Wood Physics	W2	Thermo-physical and mechano-sorptive properties of wood and their effect on service performance. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed Fri	9:00 a.m. - 10:00 a.m.
WOOD_V 573-L02	WOOD_V	573		L02	Advanced Wood Physics	W2	Thermo-physical and mechano-sorptive properties of wood and their effect on service performance. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Thu	10:00 a.m. - 12:00 p.m.
WOOD_V 576-101	WOOD_V	576		101	Advanced Wood Mechanics	W1	Analysis and design of structural wood products. Effect of material structure and variability on performance of wood products. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
WOOD_V 576-201	WOOD_V	576		201	Advanced Wood Mechanics	W2	Analysis and design of structural wood products. Effect of material structure and variability on performance of wood products. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
WRDS_V 150-A_001	WRDS_V	150	A	A_001	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu	9:00 a.m. - 10:00 a.m.
WRDS_V 150-A_002	WRDS_V	150	A	A_002	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu	11:00 a.m. - 12:00 p.m.
WRDS_V 150-A_003	WRDS_V	150	A	A_003	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Tue Thu	12:00 p.m. - 1:00 p.m.
WRDS_V 150-A_011	WRDS_V	150	A	A_011	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
WRDS_V 150-A_020	WRDS_V	150	A	A_020	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	9:30 a.m. - 11:00 a.m.
WRDS_V 150-A_030	WRDS_V	150	A	A_030	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
WRDS_V 150-A_031	WRDS_V	150	A	A_031	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	8:00 a.m. - 9:30 a.m.
WRDS_V 150-A_032	WRDS_V	150	A	A_032	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Wed Fri	10:00 a.m. - 11:30 a.m.













WRDS_V 150-B_912	WRDS_V	150	B	B_912	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	9:30 a.m. - 11:00 a.m.
WRDS_V 150-B_921	WRDS_V	150	B	B_921	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
WRDS_V 150-B_922	WRDS_V	150	B	B_922	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
WRDS_V 150-B_923	WRDS_V	150	B	B_923	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
WRDS_V 150-B_931	WRDS_V	150	B	B_931	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
WRDS_V 150-B_932	WRDS_V	150	B	B_932	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
WRDS_V 150-B_933	WRDS_V	150	B	B_933	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
WRDS_V 150-B_941	WRDS_V	150	B	B_941	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
WRDS_V 150-B_961	WRDS_V	150	B	B_961	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	Online Learning	Tue	7:00 p.m. - 10:00 p.m.
WRDS_V 150-B_971	WRDS_V	150	B	B_971	Writing and Research in the Disciplines	W2	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	Online Learning	Thu	7:00 p.m. - 10:00 p.m.
WRDS_V 150-DNU_B_731	WRDS_V	150	B	DNU_B_731	Writing and Research in the Disciplines	W1	Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them. This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
WRDS_V 200-001	WRDS_V	200		001	Writing and Communication Foundations	W1	Key principles of writing and communication and issues currently debated in the field of Writing Studies. The role of writing and communication in making knowledge, constructing identity, and exercising power. Restricted to students with second year standing or above.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
WRDS_V 200-100	WRDS_V	200		100	Writing and Communication Foundations	W2	Key principles of writing and communication and issues currently debated in the field of Writing Studies. The role of writing and communication in making knowledge, constructing identity, and exercising power. Restricted to students with second year standing or above.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
WRDS_V 250-001	WRDS_V	250		001	Evaluating Knowledge Production and Mobilization	W1	Critical and practical questions about how discourse communities construct and mobilize knowledge. The evaluation of knowledge as information/misinformation. How the evaluation of information is shaped by discursive contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.	In Person Learning	Arranged	Arranged
WRDS_V 250-011	WRDS_V	250		011	Evaluating Knowledge Production and Mobilization	W2	Critical and practical questions about how discourse communities construct and mobilize knowledge. The evaluation of knowledge as information/misinformation. How the evaluation of information is shaped by discursive contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.	In Person Learning	Tue Thu	11:00 a.m. - 12:30 p.m.
WRDS_V 250-100	WRDS_V	250		100	Evaluating Knowledge Production and Mobilization	W1	Critical and practical questions about how discourse communities construct and mobilize knowledge. The evaluation of knowledge as information/misinformation. How the evaluation of information is shaped by discursive contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.	In Person Learning	Arranged	Arranged
WRDS_V 250-101	WRDS_V	250		101	Evaluating Knowledge Production and Mobilization	W1	Critical and practical questions about how discourse communities construct and mobilize knowledge. The evaluation of knowledge as information/misinformation. How the evaluation of information is shaped by discursive contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.	In Person Learning	Arranged	Arranged
WRDS_V 350-001	WRDS_V	350		001	Knowledge-Making in the Disciplines	W1	An advanced scholarly research and writing course that allows students to build on their existing knowledge of academic research and writing practices by studying specific features of scholarly writing relevant to their own interests and disciplines. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students with at least 3rd-year standing.	In Person Learning	Mon Wed	11:00 a.m. - 12:30 p.m.
WRDS_V 350-002	WRDS_V	350		002	Knowledge-Making in the Disciplines	W1	An advanced scholarly research and writing course that allows students to build on their existing knowledge of academic research and writing practices by studying specific features of scholarly writing relevant to their own interests and disciplines. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students with at least 3rd-year standing.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
WRDS_V 350-003	WRDS_V	350		003	Knowledge-Making in the Disciplines	W1	An advanced scholarly research and writing course that allows students to build on their existing knowledge of academic research and writing practices by studying specific features of scholarly writing relevant to their own interests and disciplines. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students with at least 3rd-year standing.	In Person Learning	Arranged	Arranged
WRDS_V 350-011	WRDS_V	350		011	Knowledge-Making in the Disciplines	W2	An advanced scholarly research and writing course that allows students to build on their existing knowledge of academic research and writing practices by studying specific features of scholarly writing relevant to their own interests and disciplines. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students with at least 3rd-year standing.	In Person Learning	Mon Wed Fri	11:00 a.m. - 12:00 p.m.

WRDS_V 350-012	WRDS_V	350		012	Knowledge-Making in the Disciplines	W2	An advanced scholarly research and writing course that allows students to build on their existing knowledge of academic research and writing practices by studying specific features of scholarly writing relevant to their own interests and disciplines. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students with at least 3rd-year standing.	In Person Learning	Tue Thu	2:00 p.m. - 3:30 p.m.
WRDS_V 360-001	WRDS_V	360		001	Knowledge Popularization: Research Writing in New Media	W2	Rhetorical purposes, moves and features of new media genres that use or transform research for public audiences. Provides opportunities for students to analyze, critically assess, and produce these genres themselves. Restricted to students with third year standing or above. Prerequisites: 3 credits from one of Arts One, ASTU 100, ASTU 101, WRDS 150, WRDS 350, ENGL 100, SCIE 113, SCIE 300, CHEM 300, APSC 176, LFS 150, FRST 150, COMM 196.	In Person Learning	Arranged	Arranged
WRDS_V 360-010	WRDS_V	360		010	Knowledge Popularization: Research Writing in New Media	W1	Rhetorical purposes, moves and features of new media genres that use or transform research for public audiences. Provides opportunities for students to analyze, critically assess, and produce these genres themselves. Restricted to students with third year standing or above. Prerequisites: 3 credits from one of Arts One, ASTU 100, ASTU 101, WRDS 150, WRDS 350, ENGL 100, SCIE 113, SCIE 300, CHEM 300, APSC 176, LFS 150, FRST 150, COMM 196.	In Person Learning	Tue	2:00 p.m. - 3:30 p.m.
WRDS_V 360-100	WRDS_V	360		100	Knowledge Popularization: Research Writing in New Media	W2	Rhetorical purposes, moves and features of new media genres that use or transform research for public audiences. Provides opportunities for students to analyze, critically assess, and produce these genres themselves. Restricted to students with third year standing or above. Prerequisites: 3 credits from one of Arts One, ASTU 100, ASTU 101, WRDS 150, WRDS 350, ENGL 100, SCIE 113, SCIE 300, CHEM 300, APSC 176, LFS 150, FRST 150, COMM 196.	In Person Learning	Arranged	Arranged
WRDS_V 370-001	WRDS_V	370		001	Research Writing and Marginalization	W2	Examines how marginalized groups are positioned in research writing. Focuses on the role of power, knowledge, and ethics in shaping language features and textual structures of research writing. Prerequisite: Third year standing and 3 credits from one of WRDS 150, WRDS 350, ENGL 100, SCIE 113, SCIE 300, CHEM 300, APSC 176, LFS 150, FRST 150, COMM 196, Arts One, ASTU 100, ASTU 101.	In Person Learning	Mon Wed Fri	1:00 p.m. - 2:00 p.m.
WRDS_V 390-001	WRDS_V	390		001	Writing Disability	W1	Explores Disability theories, to understand their connections to writing and discourse studies. Prerequisite: Third year standing and 3 credits from one of WRDS 150, WRDS 350, ENGL 100, SCIE 113, SCIE 300, CHEM 300, APSC 176, LFS 150, FRST 150, COMM 196, Arts One, ASTU 100, ASTU 101.	In Person Learning	Mon Wed Fri	12:00 p.m. - 1:00 p.m.
WRDS_V 390-100	WRDS_V	390		100	Writing Disability	W2	Explores Disability theories, to understand their connections to writing and discourse studies. Prerequisite: Third year standing and 3 credits from one of WRDS 150, WRDS 350, ENGL 100, SCIE 113, SCIE 300, CHEM 300, APSC 176, LFS 150, FRST 150, COMM 196, Arts One, ASTU 100, ASTU 101.	In Person Learning	Arranged	Arranged
WRDS_V 498-G_001	WRDS_V	498	G	G_001	Special Topics in Writing Studies	W1	In-depth study of selected topics in Writing Studies. Topics vary year-by-year. Restricted to students with third-year standing or higher. Prerequisite: 3 credits from one of WRDS 150, WRDS 350, ENGL 100, SCIE 113, SCIE 300, CHEM 300, APSC 176, LFS 150, FRST 150, COMM 196, Arts One, ASTU 100, ASTU 101, CAP 100, CAP 101	In Person Learning	Thu	1:30 p.m. - 4:30 p.m.
YDSH_V 101-101	YDSH_V	101		101	Learning Yiddish: Foundations I	W1	Introduction to Yiddish language and culture. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a>	Multi-access Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
YDSH_V 102-201	YDSH_V	102		201	Learning Yiddish: Foundations II	W2	Continuation of YDSH 101. Yiddish language and culture. Find out more at <a href="https://cenes.ubc.ca/courses/">https://cenes.ubc.ca/courses/</a>	Multi-access Learning	Tue Thu	3:30 p.m. - 5:00 p.m.
ZOOL_V 500-A_001	ZOOL_V	500	A	A_001	Directed Studies in Zoology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-B_001	ZOOL_V	500	B	B_001	Directed Studies in Zoology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-B_101	ZOOL_V	500	B	B_101	Directed Studies in Zoology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-B_201	ZOOL_V	500	B	B_201	Directed Studies in Zoology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-B_D01	ZOOL_V	500	B	B_D01	Directed Studies in Zoology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-B_D02	ZOOL_V	500	B	B_D02	Directed Studies in Zoology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-B_D03	ZOOL_V	500	B	B_D03	Directed Studies in Zoology	W1-2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-D_002	ZOOL_V	500	D	D_002	Directed Studies in Zoology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-D_101	ZOOL_V	500	D	D_101	Directed Studies in Zoology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-D_201	ZOOL_V	500	D	D_201	Directed Studies in Zoology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-D_D01	ZOOL_V	500	D	D_D01	Directed Studies in Zoology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged

ZOOL_V 500-D_D02	ZOOL_V	500	D	D_D02	Directed Studies in Zoology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-D_D03	ZOOL_V	500	D	D_D03	Directed Studies in Zoology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-E_101	ZOOL_V	500	E	E_101	Directed Studies in Zoology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-E_201	ZOOL_V	500	E	E_201	Directed Studies in Zoology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-E_D01	ZOOL_V	500	E	E_D01	Directed Studies in Zoology	W1	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 500-E_D02	ZOOL_V	500	E	E_D02	Directed Studies in Zoology	W2	This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration	In Person Learning	Arranged	Arranged
ZOOL_V 503-001	ZOOL_V	503		001	Comparative Animal Physiology Seminar	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Fri	12:00 p.m. - 1:00 p.m.
ZOOL_V 509-202	ZOOL_V	509		202	Advanced Conservation Science	W2	This course is not eligible for Credit/D/Fail grading. Equivalency: RES 509	In Person Learning	Arranged	Arranged
ZOOL_V 549-001	ZOOL_V	549		001	M.Sc. Thesis	W1-2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ZOOL_V 549-101	ZOOL_V	549		101	M.Sc. Thesis	W1	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ZOOL_V 549-201	ZOOL_V	549		201	M.Sc. Thesis	W2	This course is not eligible for Credit/D/Fail grading.	In Person Learning	Arranged	Arranged
ZOOL_V 649-001	ZOOL_V	649		001	Doctoral Dissertation	W1-2		In Person Learning	Arranged	Arranged
ZOOL_V 649-101	ZOOL_V	649		101	Doctoral Dissertation	W1		In Person Learning	Arranged	Arranged
ZOOL_V 649-201	ZOOL_V	649		201	Doctoral Dissertation	W2		In Person Learning	Arranged	Arranged