<table>
<thead>
<tr>
<th>Course Section</th>
<th>Course Subject</th>
<th>Course Number</th>
<th>Special Topic</th>
<th>Section Number</th>
<th>Section Title</th>
<th>Term</th>
<th>Description</th>
<th>Delivery Mode</th>
<th>Scheduled Days</th>
<th>Scheduled Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>AANB_V 500-001</td>
<td>AANB_V</td>
<td>500</td>
<td></td>
<td>001</td>
<td>Graduate Seminar</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AANB_V 500-002</td>
<td>AANB_V</td>
<td>500</td>
<td></td>
<td>002</td>
<td>Research Methodology in Applied Animal Biology</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</tr>
<tr>
<td>AANB_V 530-A_001</td>
<td>AANB_V</td>
<td>530</td>
<td>A</td>
<td>A_001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AANB_V 530-B_001</td>
<td>AANB_V</td>
<td>530</td>
<td>B</td>
<td>B_001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AANB_V 530-C_001</td>
<td>AANB_V</td>
<td>530</td>
<td>C</td>
<td>C_001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AANB_V 549-A_001</td>
<td>AANB_V</td>
<td>549</td>
<td>A</td>
<td>A_001</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AANB_V 549-B_001</td>
<td>AANB_V</td>
<td>549</td>
<td>B</td>
<td>B_001</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AANB_V 551-001</td>
<td>AANB_V</td>
<td>551</td>
<td></td>
<td>001</td>
<td>Tutorials in Animal Welfare Research</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
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<tr>
<td>AANB_V 649-001</td>
<td>AANB_V</td>
<td>649</td>
<td></td>
<td>001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
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<tr>
<td>AANB_V 649-002</td>
<td>AANB_V</td>
<td>649</td>
<td></td>
<td>002</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
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<tr>
<td>AANB_V 649-003</td>
<td>AANB_V</td>
<td>649</td>
<td></td>
<td>003</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
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<tr>
<td>ACAM_V 250-002</td>
<td>ACAM_V</td>
<td>250</td>
<td></td>
<td>002</td>
<td>Asian Canadians in Popular Culture</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Popular culture's role in the production of Asian Canadian and diasporic communities, with emphasis on race, gender, sexuality, and other identity categories.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:30 p.m.</td>
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<tr>
<td>ACAM_V 300-001</td>
<td>ACAM_V</td>
<td>300</td>
<td></td>
<td>001</td>
<td>Dis/Orienting Asian Canada</td>
<td>W1</td>
<td>The historical, cultural, 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.</td>
<td>Multi-access Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
</tbody>
</table>
ACAM_V 320-001  
ACAM_V 320  
B  
B  
001  
Asian Canadian Cultural Studies  
W2  
Examine 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 Cultural 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 Cultural 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-L-001  
ACAM_V 320  
L  
L  
001  
Selected Topics in ACAM Studies  
W1  
Selected Asian Canadian Cultural 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. - 3:30 p.m.  

ACAM_V 320-001  
ACAM_V 320  
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 audio, video, photography, and web publishing.  
In Person Learning  
Thu  
5:00 p.m. - 9:30 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  
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 328-63E  
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 329-632  
ADHE_V 329  
632  
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  

Asian Canadian Cultural Studies (ACAM_V 320) is recommended.

Asian Canadian Cultural Studies (ACAM_V 320) is recommended.

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Asian Canadian Cultural Studies (ACAM_V 320) is recommended.
ADHE_V 330-021 ADHE_V 330-021 The Community Practice of Adult Education ADHE_V 330-021 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. [3-0-0] In Person Learning Arranged Arranged
ADHE_V 330-03A ADHE_V 330-03A The Community Practice of Adult Education ADHE_V 330-03A 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. [3-0-0] Online Learning Arranged Arranged
ADHE_V 330-03B ADHE_V 330-03B The Community Practice of Adult Education ADHE_V 330-03B 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. [3-0-0] Online Learning Arranged Arranged
ADHE_V 330-03C ADHE_V 330-03C The Community Practice of Adult Education ADHE_V 330-03C 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. [3-0-0] Online Learning Arranged Arranged
ADHE_V 330-03D ADHE_V 330-03D The Community Practice of Adult Education ADHE_V 330-03D 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. [3-0-0] Online Learning Arranged Arranged
ADHE_V 330-03E ADHE_V 330-03E The Community Practice of Adult Education ADHE_V 330-03E 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. [3-0-0] Online Learning Arranged Arranged
ADHE_V 330-03F ADHE_V 330-03F The Community Practice of Adult Education ADHE_V 330-03F 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. [3-0-0] Online Learning Arranged Arranged
ADHE_V 412-021 ADHE_V 412-021 An Overview of Adult Education ADHE_V 412-021 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] In Person Learning Arranged Arranged
ADHE_V 412-03A ADHE_V 412-03A An Overview of Adult Education ADHE_V 412-03A 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] Online Learning Arranged Arranged
ADHE_V 412-03B ADHE_V 412-03B An Overview of Adult Education ADHE_V 412-03B 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] Online Learning Arranged Arranged
ADHE_V 412-03C ADHE_V 412-03C An Overview of Adult Education ADHE_V 412-03C 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] Online Learning Arranged Arranged
ADHE_V 412-03D ADHE_V 412-03D An Overview of Adult Education ADHE_V 412-03D 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] Online Learning Arranged Arranged
ADHE_V 412-03E ADHE_V 412-03E An Overview of Adult Education ADHE_V 412-03E 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] Online Learning Arranged Arranged
ADHE_V 412-03F ADHE_V 412-03F An Overview of Adult Education ADHE_V 412-03F 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] Online Learning Arranged Arranged
AFST_V 250-A_031 AFST_V 250-A_031 Introduction to African Studies AFST_V 250-A_031 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_031 AFST_V 250-A_031 Introduction to African Studies AFST_V 250-A_031 Cultural, historical, and geographical issues of African Studies. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.
AFST_V 308-021 AFST_V 308-021 The Languages of Africa AFST_V 308-021 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 308-031 AFST_V 308-031 Arts of Africa and the African Diasporas AFST_V 308-031 Comparative exploration of art practices and their relationship to colonial and postcolonial histories. Credit will be granted for only one of AFST 308 or ARTH 308: Equivalency: ARTH 308 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
AFST_V 350-A_031 AFST_V 350-A_031 Topas in African Studies AFST_V 350-A_031 Topics will vary from year to year. Consult the program website (https://artsinstudies.arts.ucalgary.ca/) for further details. In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.
AFST_V 352-A_031 AFST_V 352-A_031 Perspectives in African Studies: A Social Science Approach AFST_V 352-A_031 Major issues and theoretical approaches. In Person Learning Mon Wed Fri 1:00 p.m. - 2:30 p.m.
AFST_V 370-A_031 AFST_V 370-A_031 Literatures and Cultures of Africa and the Middle East AFST_V 370-A_031 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, transculturalism, 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: ENGL 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. - 12:30 p.m.
AFST_V 450-B_031 AFST_V 450-B_031 African Diasporic Culture in African-Canadian Communities AFST_V 450-B_031 African diasporic culture in Canadian society, focusing 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.
AMRE_V 301-001 AMRE_V 301-001 Greek and Latin Roots of English AMRE_V 301-001 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 AMRE 301. Online Learning Arranged Arranged
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.

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.
AMNE_V 151-019
In Person Learning
Am.151-019
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 160 or AMNE 151.
Online Learning Arranged Arranged

AMNE_V 151-020
In Person Learning
Am.151-020
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 160 or AMNE 151.
Online Learning Arranged Arranged

AMNE_V 151-021
In Person Learning
Am.151-021
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 160 or AMNE 151.
Online Learning Arranged Arranged

AMNE_V 151-022
In Person Learning
Am.151-022
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 160 or AMNE 151.
Online Learning Arranged Arranged

AMNE_V 151-041
In Person Learning
Am.151-041
Approaching the Ancient Mediterranean & Near East
Mon Wed Fri
11:00 a.m. - 12:00 p.m.
In Person Learning

AMNE_V 151-042
In Person Learning
Am.151-042
Approaching the Ancient Mediterranean & Near East
Mon Wed Fri
12:00 p.m. - 1:00 p.m.
In Person Learning

AMNE_V 151-043
In Person Learning
Am.151-043
Near Eastern and Biblical Mythology
Fri
Online Learning

AMNE_V 151-044
In Person Learning
Am.151-044
Near Eastern and Biblical Mythology
Mon Wed Fri
Online Learning

AMNE_V 151-045
In Person Learning
Am.151-045
Ancient Greece
Mon Wed Fri
12:00 p.m. - 1:00 p.m.
In Person Learning

AMNE_V 151-046
Online Learning
Am.151-046
Ancient Greece
W2
A survey of the ancient Greek world from the Minoans and Mycenaeans (about 2000-1000 BCE) to the Hellenistic Period (323-30 BCE). Credit will be granted for only one of CLST 211 or AMNE 215.

AMNE_V 151-047
Online Learning
Am.151-047
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.

AMNE_V 151-048
Online Learning
Am.151-048
Greek Philosophy
W1
The Pre-Socratic Gurees, Socrates, Plato, and Aristotle. Recommended preparation for AMNE 220. Offered every other year. Credit will be granted for only one of CLST 211, AMNE 215 or Phil 211.

AMNE_V 151-049
Online Learning
Am.151-049
The Pre-Socratic Gurees, Socrates, Plato, and Aristotle. Recommended preparation for AMNE 220. Offered every other year. Credit will be granted for only one of CLST 211, AMNE 215 or Phil 211.

AMNE_V 151-050
Online Learning
Am.151-050
Roman Historical Narrative
W2
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 210 or AMNE 216.

AMNE_V 151-051
Online Learning
Am.151-051
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 210 or AMNE 216.

AMNE_V 215-001
Online Learning
Am.215-001
Ancient Greece
W2
A survey of the ancient Greek world from the Minoans and Mycenaeans (about 2000-1000 BCE) to the Hellenistic Period (323-30 BCE). Credit will be granted for only one of CLST 211 or AMNE 215.

AMNE_V 215-002
Online Learning
Am.215-002
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 210 or AMNE 216.

AMNE_V 225-001
Online Learning
Am.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.

AMNE_V 225-002
Online Learning
Am.225-002
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.

AMNE_V 225-003
Online Learning
Am.225-003
Greek Philosophy
W1
The Pre-Socratic Gurees, Socrates, Plato, and Aristotle. Recommended preparation for AMNE 220. Offered every other year. Credit will be granted for only one of CLST 211, AMNE 215 or Phil 211.

AMNE_V 225-004
Online Learning
Am.225-004
The Pre-Socratic Gurees, Socrates, Plato, and Aristotle. Recommended preparation for AMNE 220. Offered every other year. Credit will be granted for only one of CLST 211, AMNE 215 or Phil 211.

AMNE_V 230-001
Online Learning
Am.230-001
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.

AMNE_V 230-002
Online Learning
Am.230-002
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.

AMNE_V 230-003
Online Learning
Am.230-003
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.

AMNE_V 230-004
Online Learning
Am.230-004
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.

AMNE_V 230-005
Online Learning
Am.230-005
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.

AMNE_V 230-006
Online Learning
Am.230-006
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.

AMNE_V 230-007
Online Learning
Am.230-007
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.

AMNE_V 230-008
Online Learning
Am.230-008
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.

AMNE_V 230-009
Online Learning
Am.230-009
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.

AMNE_V 230-010
Online Learning
Am.230-010
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.

AMNE_V 230-011
Online Learning
Am.230-011
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.

AMNE_V 230-012
Online Learning
Am.230-012
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Mode</th>
<th>Days</th>
<th>Time</th>
<th>Credits</th>
<th>Arrangement</th>
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<tr>
<td>AMNE_V 251-003</td>
<td>Near Eastern and Biblical Mythology</td>
<td>In Person</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>3.00</td>
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<td>AMNE_V 260-001</td>
<td>Scriptures of the Near East</td>
<td>In Person</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>3.00</td>
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<td>AMNE_V 260-002</td>
<td>Scriptures of the Near East</td>
<td>In Person</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>AMNE_V 262-001</td>
<td>Introduction to Judaism and Its Texts</td>
<td>In Person</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>AMNE_V 265-001</td>
<td>History of Christianity to 300 CE</td>
<td>In Person</td>
<td>Manual</td>
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<tr>
<td>AMNE_V 270-001</td>
<td>The Archaeology of Life and Death in the Roman Empire</td>
<td>In Person</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>AMNE_V 274-001</td>
<td>Byzantine: Arts of an Empire</td>
<td>In Person</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>AMNE_V 300-001</td>
<td>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. Pre requisite: Second-year standing or higher. AMNE 200 is recommended.</td>
<td>In Person</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>3.00</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 301-001</td>
<td>The Technical Terms of Medicine and Biological Science</td>
<td>Online</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>AMNE_V 301-002</td>
<td>The Technical Terms of Medicine and Biological Science</td>
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<td>Manual</td>
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<td>AMNE_V 301-041</td>
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<td>Manual</td>
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<td>AMNE_V 301-042</td>
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<td>AMNE_V 301-053</td>
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<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>AMNE_V 301-054</td>
<td>The Technical Terms of Medicine and Biological Science</td>
<td>Online</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>AMNE_V 301-055</td>
<td>The Technical Terms of Medicine and Biological Science</td>
<td>Online</td>
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<td>AMNE_V 301-057</td>
<td>The Technical Terms of Medicine and Biological Science</td>
<td>Online</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>AMNE_V 301-058</td>
<td>The Technical Terms of Medicine and Biological Science</td>
<td>Online</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>AMNE_V 301-059</td>
<td>The Technical Terms of Medicine and Biological Science</td>
<td>Online</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>3.00</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 301-060</td>
<td>The Technical Terms of Medicine and Biological Science</td>
<td>Online</td>
<td>Manual</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>3.00</td>
<td>Arranged</td>
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</table>

The course 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.

The Technical Terms of Medicine and Biological Science

Course Description:

The course 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.

Prerequisite:

Second-year standing or higher. AMNE 200 is recommended.

Additional Information:

Credits: 3.00

In Person Learning: Arranged

Class Schedule:

12:00 p.m. - 1:00 p.m.

Tues and Thursdays.

Course Credit:

Credit will be granted for only one of CLST 301 or AMNE 301.
<table>
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<tr>
<th>Code</th>
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<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tr>
<td>AMNE_V 306-002</td>
<td>003</td>
<td>Ancient Technology: Greece and Rome</td>
<td>W2</td>
<td>9:00 a.m. - 10:05 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 312-001</td>
<td>001</td>
<td>History of Ancient Egypt</td>
<td>W2</td>
<td>9:00 a.m. - 10:05 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 312-002</td>
<td>001</td>
<td>History of Ancient Egypt</td>
<td>W2</td>
<td>10:05 a.m. - 11:10 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 317-001</td>
<td>001</td>
<td>Alexander the Great and his Empire</td>
<td>W2</td>
<td>10:05 a.m. - 11:10 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 317-002</td>
<td>001</td>
<td>Alexander the Great and his Empire</td>
<td>W2</td>
<td>11:10 a.m. - 12:15 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 320-001</td>
<td>001</td>
<td>The Roman Republic</td>
<td>W2</td>
<td>11:10 a.m. - 12:15 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 321-001</td>
<td>001</td>
<td>The Early Roman Empire</td>
<td>W2</td>
<td>12:15 p.m. - 1:20 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 321-0-A_001</td>
<td>A</td>
<td>Topics in Ancient Mediterranean and Near Eastern History and Culture</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 324-001</td>
<td>001</td>
<td>Women in the Bronze Age, Classical Greek and Hellenistic Cultures</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>AMNE_V 325-001</td>
<td>001</td>
<td>Women in the Roman World of Republican and Imperial Times</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 331-001</td>
<td>001</td>
<td>Jewish Law</td>
<td>W2</td>
<td>11:00 a.m. - 12:05 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 333-001</td>
<td>001</td>
<td>Roman Law</td>
<td>W2</td>
<td>11:00 a.m. - 12:05 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 341-001</td>
<td>001</td>
<td>Sex, Lies, and Violence in the Hebrew Bible</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 341-002</td>
<td>001</td>
<td>Sex, Lies, and Violence in the Hebrew Bible</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>AMNE_V 342-001</td>
<td>001</td>
<td>Translating the Bible</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>AMNE_V 346-001</td>
<td>001</td>
<td>Latin Epic</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>AMNE_V 347-001</td>
<td>001</td>
<td>Classical Comedy</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>AMNE_V 356-001</td>
<td>001</td>
<td>Roman Religion</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
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<tr>
<td>AMNE_V 361-001</td>
<td>001</td>
<td>The Origins of Judaism</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
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<tr>
<td>AMNE_V 364-001</td>
<td>001</td>
<td>Magic, Prophecy, and Divination in the Biblical World</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
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<tr>
<td>AMNE_V 366-001</td>
<td>001</td>
<td>The Origins of Christianity</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
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<tr>
<td>AMNE_V 369-001</td>
<td>001</td>
<td>Jesus: Between History and Literature</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>AMNE_V 371-001</td>
<td>001</td>
<td>Ancient Egypt: The Archaeology of the Land of the Pharaohs</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
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<tr>
<td>AMNE_V 372-001</td>
<td>001</td>
<td>The Archaeology of Ancient Iraq and Syria: Babylon and Beyond</td>
<td>W2</td>
<td>10:00 a.m. - 11:05 a.m.</td>
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<td>AMNE_V 599-001</td>
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<td>Directed Studies in Anatomy</td>
<td>W1-2</td>
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<td>002</td>
<td>Directed Studies in Anatomy</td>
<td>W1-2</td>
<td>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</td>
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<td>Directed Studies in Anatomy</td>
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<td>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</td>
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**ANAT_V**

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<td>ANAT_V 392-001</td>
<td>ANAT_V 392</td>
<td>001</td>
<td>Gross Anatomy of the Limbs and Trunk</td>
<td>W1</td>
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<td>ANAT_V 392-002</td>
<td>ANAT_V 392</td>
<td>002</td>
<td>Gross Anatomy of the Limbs and Trunk</td>
<td>W1</td>
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<td>001</td>
<td>Directed Studies in Anatomy</td>
<td>W1-2</td>
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<td>001</td>
<td>Cell Structure and Function</td>
<td>W1-2</td>
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<tr>
<td>ANAT_V 504-002</td>
<td>ANAT_V 504</td>
<td>002</td>
<td>Cell Structure and Function</td>
<td>W1-2</td>
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<tr>
<td>ANAT_V 548-A_001</td>
<td>ANAT_V 548</td>
<td>A</td>
<td>Directed Studies in Anatomy &amp; Cell Biology</td>
<td>W1</td>
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<td>A</td>
<td>Directed Studies in Anatomy &amp; Cell Biology</td>
<td>W1</td>
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<td>001</td>
<td>Directed Studies in Anatomy</td>
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<td>AMNE_V 699-003</td>
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<td>Directed Studies in Anatomy</td>
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**AMNE_V**

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<th>Course Title</th>
<th>Schedule</th>
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<th>Notes</th>
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<tr>
<td>AMNE_V 599-001</td>
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<tr>
<td>AMNE_V 599-002</td>
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**ANAT_V**

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<td>A</td>
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<td>W1</td>
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<tr>
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<td>Instructor</td>
<td>Location</td>
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<tr>
<td>ANT_V 649</td>
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<td>ANTH_V 100</td>
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**Course Descriptions:**

- **ANAT_V 649**: Neuroanatomy and Gross Anatomy (3 credits) - Lectures, demonstrations, and student seminars on selected and current topics in cell biology and the anatomical sciences. Attendance is required of all MA & 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.

- **ANTH_V 100**: Doctoral Dissertation Introduction to Cultural Anthropology (3 credits) - 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.

**Note:**

- **Prerequisites:**
  - ANTH_V 100
  - ANTH_V 100
  - ANTH_V 100
  - ANTH_V 100
  - ANTH_V 100
  - ANTH_V 100
  - ANTH_V 100
  - ANTH_V 100
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- **Restrictions:**
  - Students must be registered in graduate-level studies in Anatomy & Cell Biology.
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<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>ANTH V 202-F_001</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Fri</td>
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<tr>
<td>ANTH V 100-A_D5E</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Wed</td>
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<td>ANTH V 100-A_D5D</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Fri</td>
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<td>ANTH V 100-A_D3J</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Fri</td>
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<tr>
<td>ANTH V 100-A_D3E</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Fri</td>
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<tr>
<td>ANTH V 100-A_D3F</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>Fri</td>
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<td>ANTH V 100-A_D4E</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>6:00 p.m. - 7:00 p.m.</td>
<td>Fri</td>
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<td>ANTH V 100-A_D4D</td>
<td>Introduction to Cultural Anthropology</td>
<td>In Person Learning</td>
<td>7:00 p.m. - 8:00 p.m.</td>
<td>Fri</td>
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</table>

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.

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.

The following are options often found in cultural anthropology courses:
- **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.**

The course may cover topics such as:
- **Cultural background to contemporary events.**
- **Problems of nationalism and regional conflicts.**
- **Economic and social development.**
- **Gender, religion, and social change.**
Anthropology of Drugs (ANTH V 300-002) - W2
- 5:00 p.m. - 8:00 p.m.
- Hybrid Learning
- Mon-We

The Anthropology of Insurrections and Revolution (ANTH V 305-001) - W2
- 5:00 p.m. - 8:00 p.m.
- In Person Learning
- Tue-Thu

Witches, Vampires, and Zombies: Anthropology of the Supernatural (ANTH V 306-001) - W1
- 3:30 p.m. - 5:00 p.m.
- In Person Learning
- Tue-Thu

Witches, Vampires, and Zombies: Anthropology of the Supernatural (ANTH V 306-002) - W2
- 3:30 p.m. - 5:00 p.m.
- In Person Learning
- Tue-Thu

Eating Culture (ANTH V 310-001) - W1
- 3:30 p.m. - 5:00 p.m.
- In Person Learning
- Arranged

Sex, Gender, and Culture (ANTH V 313-001) - W2
- 3:30 p.m. - 5:00 p.m.
- In Person Learning
- Tue-Thu

Japanese Popular Culture (ANTH V 315-001) - W1
- 3:30 p.m. - 5:00 p.m.
- In Person Learning
- Mon-We

Culture and Communication (ANTH V 317-001) - W2
- 3:30 p.m. - 5:00 p.m.
- In Person Learning
- Mon-We

Contemporary Indigenous Issues in British Columbia (ANTH V 320-001) - W1
- 3:30 p.m. - 5:00 p.m.
- In Person Learning
- Mon-We

Introductions to Medical Anthropology (ANTH V 327-001) - W1
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Tue-Thu

Ethnography of Korea (ANTH V 330-001) - A_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of Special Areas (ANTH V 330-002) - A_002
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of Special Areas (ANTH V 330-003) - A_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of Special Areas (ANTH V 330-004) - F_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of Special Areas (ANTH V 330-005) - G_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of Special Areas (ANTH V 330-006) - H_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of Special Areas (ANTH V 330-007) - I_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of Special Areas (ANTH V 330-008) - J_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Ethnography of the Northwest Coast (ANTH V 330-009) - A_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Mon-We

Ethnography of the Northwest Coast (ANTH V 330-010) - A_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Mon-We

Ethnography of the Northwest Coast (ANTH V 330-011) - A_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Mon-We

Ethnography of Sub-Saharan Africa (ANTH V 330A-001) - W1
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Arranged

Linguistic Anthropology (ANTH V 317-001) - A_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Mon-We

Japanese Popular Culture (ANTH V 320-001) - A_001
- 11:00 a.m. - 12:30 p.m.
- In Person Learning
- Tue-Thu
ANTH 253  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 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).  Prerequisite: ANTH 253.  Examines how multiple generations of biomes form, build, and reframe what community and belonging are beyond the confines of the nation-state. Considers ethnographies of diaspora identity and sovereignty. Recommended: at least one 200-level social science course (e.g. ANTH, SOC, GGOL, POLI).  In Person Learning  Arranged  Arranged

ANTH 376  001  Diaspora and Belonging: Anthropological Perspectives  W1  Analysis of the development and expression of anthropological theory and practice in institutional contexts.  In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

ANTH 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. - 3:30 p.m.

ANTH 400-A_001  ANTH 400-A_002  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 400-A_003  ANTH 400-A_004  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 404-A_001  ANTH 404-A_002  Ethnography in Circumpolar North: Comparative Perspectives.  W1  An examination of the relationship between indigenous peoples and national states in Greenland, Canada, Alaska and Siberia, using ethnographic methods.  In Person Learning  Mon Wed  9:30 a.m. - 11:00 a.m.

ANTH 407  001  Principles of Field Work  W2  An examination of fieldwork 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 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 415-A_001  ANTH 415-A_002  Religion and Society  W1  Comparative study of religious beliefs, practices, and movements; relations between religion, social, and political institutions; religion as a force for stability and change; anthropological/sociological theories of religion.  In Person Learning  Arranged

ANTH 418  001  Anthropological Statistics  W1  Application of statistical techniques to quantitative and qualitative data in Anthropology.  In Person Learning  Mon Wed  2:00 p.m. - 3:30 p.m.

ANTH 421-A_001  ANTH 421-A_002  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

ANTH 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, entomological systems, the relationship between folk and biomedical 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

ANTH 431  001  Global Health in Cross-Cultural Contexts  W1  Issues of infectious disease, 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  10:00 a.m. - 12:00 p.m.

ANTH 431-A_001  ANTH 431-A_002  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: ANTH461.  In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

ANTH 433-A_001  ANTH 433-A_002  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

ANTH 433-A_003  ANTH 433-A_004  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

ANTH 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

ANTH 449-A_001  ANTH 449-A_002  Honours Tutorial  W1  Will usually require the presentation of at least one research paper.  In Person Learning  Arranged

ANTH 449-A_003  ANTH 449-A_004  Honours Tutorial  W2  Will usually require the presentation of at least one research paper.  In Person Learning  Arranged

ANTH 451-A_001  ANTH 451-A_002  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. - 3:00 p.m.
**ANTH_V 549-A 002**

ANTH_V 549_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 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 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 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-B 001**

ANTH_V 649_B 001
Doctoral Dissertation

W1

In Person Learning

Arranged

Arranged

**ANTH_V 649-B 002**

ANTH_V 649_B 002
Doctoral Dissertation

W2

In Person Learning

Arranged

Arranged

**ANTH_V 649-B 003**

ANTH_V 649_B 003
Doctoral Dissertation

W1-2

In Person Learning

Arranged

Arranged

**APRI_V 200-001**

APRI_V 200_001
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Mon Wed Fri

10:00 a.m. - 11:00 a.m.

**APRI_V 200-002**

APRI_V 200_002
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Mon Wed Fri

11:00 a.m. - 12:00 p.m.

**APRI_V 200-L01**

APRI_V 200_L01
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Mon

1:00 p.m. - 3:00 p.m.

**APRI_V 200-L02**

APRI_V 200_L02
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Mon

3:00 p.m. - 5:00 p.m.

**APRI_V 200-L03**

APRI_V 200_L03
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Tue

8:00 a.m. - 10:00 a.m.

**APRI_V 200-L04**

APRI_V 200_L04
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Tue

10:00 a.m. - 12:00 p.m.

**APRI_V 200-L05**

APRI_V 200_L05
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Tue

1:00 p.m. - 3:00 p.m.

**APRI_V 200-L06**

APRI_V 200_L06
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Tue

3:00 p.m. - 5:00 p.m.

**APRI_V 200-L07**

APRI_V 200_L07
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Wed

8:00 a.m. - 10:00 a.m.

**APRI_V 200-L08**

APRI_V 200_L08
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Wed

1:00 p.m. - 3:00 p.m.

**APRI_V 200-L09**

APRI_V 200_L09
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Wed

3:00 p.m. - 5:00 p.m.

**APRI_V 200-L10**

APRI_V 200_L10
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Thu

10:00 a.m. - 12:00 p.m.

**APRI_V 200-P01**

APRI_V 200_P01
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Thu

12:00 p.m. - 2:00 p.m.

**APRI_V 200-P02**

APRI_V 200_P02
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Fri

8:00 a.m. - 10:00 a.m.

**APRI_V 200-P02**

APRI_V 200_P02
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Fri

2:00 p.m. - 4:00 p.m.

**APRI_V 200-P04**

APRI_V 200_P04
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Mon

8:00 a.m. - 10:00 a.m.

**APRI_V 210-001**

APRI_V 210_001
Introduction to Soil Science

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Mon Wed Fri

11:00 a.m. - 12:00 p.m.

**APRI_V 210-001**

APRI_V 210_001
Doctoral Dissertation

W2

Physical, chemical and biological properties of soils; soil formation, classification, use and conservation. There are no prerequisites for this course, but background in Biology 12, Chemistry 12, and Physics 12 (or first-year university level) is strongly advised. [3-2]

In Person Learning

Mon Wed Fri

11:00 a.m. - 12:00 p.m.
Analysis and interpretation of current issues in applied biology. Topics will vary from year to year.

**APBI 210**
L01
Vascular Plants

A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function, and ecology. [1-3-0]

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) 100.

**APBI 244**
L01
Atmospheric Environments

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) 100.

**APBI 244**
L05
Atmospheric Environments

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) 100.

**APBI 244**
L06
Atmospheric Environments

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) 100.

**APBI 260**
L01
Agroecology I: Introduction to principles and techniques

Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis and problem-based discussions.

**APBI 260**
L05
Agroecology I: Introduction to principles and techniques

Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis and problem-based discussions.

**APBI 260**
L06
Agroecology I: Introduction to principles and techniques

Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis and problem-based discussions.

**APBI 265**
L01
Sustainable Agriculture and Food Systems

Principles and practices necessary to understand practical concerns of sustainable food systems. Includes hands-on field data collection, data analysis and problem-based discussions. Students who already present credit for APBI 260 are not permitted to receive credit for APBI 265.

**APBI 290**
L01
Introductory Topics in Applied Biology

A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function, and ecology. [1-3-0]

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) 100.

**APBI 290**
L02
Vascular Plants

A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function, and ecology. [1-3-0]

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) 100.

**APBI 290**
L03
Vascular Plants

A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function, and ecology. [1-3-0]

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) 100.

**APBI 290**
L05
Vascular Plants

A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function, and ecology. [1-3-0]

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) 100.

**APBI 290**
L06
Vascular Plants

A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form, function, and ecology. [1-3-0]

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) 100.

**APBI 311**
L01
Comparative Cardiovascular, Respiratory and Hemato-regulatory Physiology

Cardiovascular, respiratory and somato-regulatory physiology of vertebrates. Prerequisite: BCK 204 and one of BCK 241, BCK 242. And 2nd year standing. Equivalency: BUCS264

**APBI 312**
L01
Reproductive and Digestive Physiology

Reproductive and digestive physiology, and current technologies applied to these systems in domestic and wild animals. Prerequisite: One of BCK 204, BCK 260. 3rd year standing.

**APBI 313**
L01
Experimental Analysis of Animal Behaviour

Case studies will be used to discover how behavioural principles explain complexity in the behavioral of individual animals and contribute to our understanding of animal welfare. Prerequisite: Third year standing or higher. One of PSYC 303, PSYC 311 or PSYC 312 recommended.
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  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  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 ANRB 315. [3-0-0] 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  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 327-002  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  Applied Plant Breeding  W1  Small-scale classical (a, non-technological) plant breeding and seed saving. Practical approaches to crop improvement; designing and implementing a simple plant breeding program. Interactions between agriculture and the environment. Current issues, comparison of systems, species, production methods, environments, and socioeconomic. Prerequisite: [One of BIOL 200, BIOL 201, BIOL 205, BIOS 310, BIOL 200, BIOL 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  Aquaculture and the Environment  W1  An introduction to aquaculture emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-2-0] Prerequisite: BIOL 121. Equivalency: BIOL 324  In Person Learning  Tue Thu 2:00 p.m. - 3:30 p.m.

APBI V 324-001  Introduction to Seed Plant Taxonomy  W1  A survey of the structure, classification and biology of insects; ecology and life-histories of insects; insect-plant relations. [3-0-0] Prerequisite: BIOL 121. Equivalency: BIOL 327  Hybrid Learning  Tue Thu 8:00 a.m. - 9:30 a.m.

APBI V 324-01  Introduction to Seed Plant Taxonomy  W1  An introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-2-0] Prerequisite: BIOL 121. Equivalency: BIOL 324  In Person Learning  Wed 2:00 p.m. - 5:00 p.m.

APBI V 324-02  Introduction to Seed Plant Taxonomy  W1  An introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [2-2-0] Prerequisite: BIOL 121. Equivalency: BIOL 324  In Person Learning  Thu 2:00 p.m. - 5:00 p.m.

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. [3-0-0] Prerequisite: BIOL 121. Equivalency: BIOL 327  Hybrid Learning  Tue Thu 8:00 a.m. - 9:30 a.m.

APBI V 327-01  Introduction to Entomology  W1  An introduction to entomology emphasizing descriptive morphology, ecology and life-histories of insects; insect-plant relations. [3-0-0] Prerequisite: BIOL 121. Equivalency: BIOL 327  In Person Learning  Thu 9:00 a.m. - 11:00 a.m.

APBI V 327-02  Introduction to Entomology  W1  An introduction to entomology emphasizing descriptive morphology, ecology and life-histories of insects; insect-plant relations. [3-0-0] Prerequisite: BIOL 121. Equivalency: BIOL 327  In Person Learning  Thu 9:00 a.m. - 11:00 a.m.

APBI V 327-03  Introduction to Entomology  W1  An introduction to entomology emphasizing descriptive morphology, ecology and life-histories of insects; insect-plant relations. [3-0-0] Prerequisite: BIOL 121. Equivalency: BIOL 327  In Person Learning  Thu 1:30 p.m. - 3:30 p.m.

APBI V 327-04  Introduction to Entomology  W1  An introduction to entomology emphasizing descriptive morphology, ecology and life-histories of insects; insect-plant relations. [3-0-0] Prerequisite: BIOL 121. Equivalency: BIOL 327  In Person Learning  Thu 1:30 p.m. - 3:30 p.m.

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: BIOS 317  In Person Learning  Wed Fri 2:00 p.m. - 3:30 p.m.

APBI V 328-005  Weed Science  W1  Importance, identification, dissemination and biology of weeds; preventive, cultural, biological and chemical methods of control. [3-2-0] Equivalency: BIOS 317  In Person Learning  Mon Wed Fri 12:00 p.m. - 1:30 p.m.

APBI V 328-02  Weed Science  W1  Importance, identification, dissemination and biology of weeds; preventive, cultural, biological and chemical methods of control. [3-2-0] Equivalency: BIOS 317  In Person Learning  Mon Wed Fri 1:30 p.m. - 3:00 p.m.

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 remineralization; interactions between soil organisms; responses to environmental change. [2-3-0] (Prerequisite: BIOS 121) Equivalency: PROT 110  In Person Learning  Tue Thu 10:00 a.m. - 12:00 p.m.

APBI V 343-001  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 remineralization; interactions between soil organisms; responses to environmental change. [2-3-0] (Prerequisite: BIOS 121) Equivalency: PROT 110  In Person Learning  Tue 2:00 p.m. - 5:00 p.m.

APBI V 351-001  Plant Physiology  W1  Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-0-0] Prerequisite: BIOL 121 and either CHEM 122 or [Bi or Geo ChEM 111, CHIM 115, CHIM 223 is recommended. Equivalency: BIOS 301, PROT 311]  In Person Learning  Mon Wed Fri 10:00 a.m. - 11:00 a.m.

APBI V 351-01  Plant Physiology  W1  Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-0-0] Prerequisite: BIOL 121 and either CHEM 122 or [Bi or Geo ChEM 111, CHIM 115, CHIM 223 is recommended. Equivalency: BIOS 301, PROT 311]  In Person Learning  Mon Wed Fri 2:00 p.m. - 3:00 p.m.

APBI V 351-02  Plant Physiology  W1  Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-0-0] Prerequisite: BIOL 121 and either CHEM 122 or [Bi or Geo ChEM 111, CHIM 115, CHIM 223 is recommended. Equivalency: BIOS 301, PROT 311]  In Person Learning  Mon Wed Fri 2:00 p.m. - 3:00 p.m.

APBI V 351-03  Plant Physiology  W1  Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-0-0] Prerequisite: BIOL 121 and either CHEM 122 or [Bi or Geo ChEM 111, CHIM 115, CHIM 223 is recommended. Equivalency: BIOS 301, PROT 311]  In Person Learning  Wed 2:00 p.m. - 5:00 p.m.

APBI V 351-04  Plant Physiology  W1  Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. [3-0-0] Prerequisite: BIOL 121 and either CHEM 122 or [Bi or Geo ChEM 111, CHIM 115, CHIM 223 is recommended. Equivalency: BIOS 301, PROT 311]  In Person Learning  Wed 2:00 p.m. - 5:00 p.m.
APBI 421-002 Soil Processes II
W1 Soil Processes II
W1 Understanding environmental factors influencing soil-forming processes and their ecological implications. Credit will be granted for only one of BIOL 351 or BIOL 402. Prerequisite: BIOL 201.
In Person Learning
Mon
4:00 p.m. - 5:00 p.m.

APBI 426 L01 Ecological Restoration
W2 Ecological Restoration
W2 Perspectives and practices of ecological restoration in diverse ecosystems worldwide. Prerequisite: APBI 200 and one of FRST 201, APBI 201, BIOL 201, BIOL 203, BIOL 204, BIOL 205, BIOL 206, BIOL 207. Equivalency: BIOL 421
In Person Learning
Tue Thu
1:00 p.m. - 2:00 p.m.

APBI 306 L01 Plant-Water Relations for Sustainable Agriculture
W2 Plant-Water Relations for Sustainable Agriculture
W2 Application of principles and research methods of plant physiology 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
2:00 p.m. - 3:00 p.m.

APBI 412 L01 Belowground Ecosystems
W2 Belowground Ecosystems
W2 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 species, and animal welfare and human-wildlife conflict. [3-0-0] Prerequisite: APBI 314, APBI 315.
Hybrid Learning
Mon
1:00 p.m. - 3:00 p.m.

APBI 415 L01 Applied Animal Behaviour
W2 Applied Animal Behaviour
W2 Evaluation of humane treatment of individual animals living in the wild and managed within conservation biology. Assessment of attitudes and awareness of the role of animal welfare in conservation biology. Prerequisite: Third-year standing or higher. APBI 315 and BIOL 405 or COP 401 recommended.
Hybrid Learning
Wed
1:00 p.m. - 3:00 p.m.

APBI 416 L01 Compassionate Conservation
W2 Compassionate Conservation
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 361, APRI 102 and APRI 118 strongly recommended.
Hybrid Learning
Online Learning
Arranged
Arranged

APBI 422 L01 Indigenous Food Systems in Canada
W1 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 choices from indigenous communities across the country. Prerequisite: LFS 350. Or third-year standing or higher.
In Person Learning
Wed
1:00 p.m. - 3:00 p.m.

APBI 423 L01 Ecological Renovation
W2 Ecological Renovation
W2 Perspectives and practices of ecological restoration in diverse ecosystems worldwide. Prerequisite: APBI 200 and one of FRST 201, APBI 201, BIOL 201, BIOL 203, BIOL 204, BIOL 205, BIOL 207. Equivalency: BIOL 421
In Person Learning
Tue Thu
1:00 p.m. - 2:00 p.m.

APBI 426 L01 Plant-Water Relations for Sustainable Agriculture
W2 Plant-Water Relations for Sustainable Agriculture
W2 Application of principles and research methods of plant physiology 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
2:00 p.m. - 3:00 p.m.

APBI 427 L01 Insect Ecology
W1 Insect Ecology
W1 Behavioural population, and community ecology of insects. Interaction between insects and plants and the application of the principles of insect ecology to biological control of insects and weeds. [3-0-2] Prerequisite: One of BIO 100, BIO 103, APBI 102. Equivalency: BIO 427.
In Person Learning
Arranged
Arranged

APBI 427 L01 Insect Ecology
W1 Insect Ecology
W1 Behavioural population, and community ecology of insects. Interaction between insects and plants and the application of the principles of insect ecology to biological control of insects and weeds. [3-0-2] Prerequisite: One of BIO 100, BIO 103, APBI 102. Equivalency: BIO 427.
In Person Learning
Arranged
Arranged

APBI 428 L01 Plant-Microbe Interactions
W2 Plant-Microbe Interactions
W2 Development and implementation of multi-disciplinary pest management programs in agricultural crops. [3-2] Prerequisite: BIOL 121.
Online Learning
Arranged
Arranged
APBI 440-001  APBI 540 001 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 375. Equivalency: BIOL 440. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

APBI 442-001  APBI 461 001 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 461, or PLNT 542. Prerequisite: All of BIOC 112, BIOC 121 and one of BIOC 200, BIOC 245, APBI 205, BIOC 250. In Person Learning Tue Thu 11:30 a.m. - 1:00 p.m.

APBI 444-001  APBI 444 001 Agroecosystem W1 Ecological, economic, and social benefits of incorporating trees into agricultural landscapes. Lectures and group work designing agroforestry systems in temperate and tropical contexts. Prerequisite: One of WSCI 203, APBI 360. Equivalency: FCE/7444. In Person Learning Arranged Arranged

APBI 460-001  APBI 460 001 Agroecology 1: 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 302, or equivalent. Online Learning Tue Thu 12:30 p.m. - 2:00 p.m.

APBI 463-002  APBI 463 002 Insects in Agroecosystems W1 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 307, BIOC 127 and one of BIOC 303, GEOG 314, FAST 201, LIFS 352, STAT 200. In Person Learning In Person Learning 9:30 a.m. - 11:00 a.m.

APBI 465-001  APBI 465 001 Capstone in Sustainable Agriculture and Food Systems W1 Integrates classroom and applied learning at the UBC Farm with design project. [3-0-0] Prerequisite: APBI 365. In Person Learning In Person Learning Arranged Arranged

APBI 466-A_102  APBI 466-A_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 In Person Learning Arranged Arranged

APBI 466-C_103  APBI 466-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 In Person Learning Arranged Arranged

APBI 466-D_201  APBI 466-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 Arranged

APBI 466-E_202  APBI 466-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. - 3:00 p.m.

APBI 466-F_204  APBI 466-F_204 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 466-H_306  APBI 466-H_306 Advanced Topics in Applied Biology W1 Application of principles and concepts of Applied Animal Biology to experimental learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third year standing or higher. APBI 312 and/or BIOL 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning In Person Learning Tue Thu 10:00 a.m. - 11:00 a.m.

APBI 466-A_001  APBI 466-A_001 Applied Animal Biology Practicum W1 Application of principles and concepts of Applied Animal Biology to experimental learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third year standing or higher. APBI 312 and/or BIOL 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning In Person Learning Arranged Arranged

APBI 466-A_030  APBI 466-A_030 Applied Animal Biology Practicum W2 Application of principles and concepts of Applied Animal Biology to experimental learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third year standing or higher. APBI 312 and/or BIOL 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning In Person Learning Arranged Arranged

APBI 466-B_001  APBI 466-B_001 Applied Animal Biology Practicum W1 Application of principles and concepts of Applied Animal Biology to experimental learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third year standing or higher. APBI 312 and/or BIOL 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning In Person Learning Arranged Arranged

APBI 466-B_002  APBI 466-B_002 Applied Animal Biology Practicum W2 Application of principles and concepts of Applied Animal Biology to experimental learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third year standing or higher. APBI 312 and/or BIOL 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning In Person Learning Arranged Arranged

APBI 467-A_001  APBI 467-A_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning In Person Learning Arranged Arranged

APBI 467-A_002  APBI 467-A_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning In Person Learning Arranged Arranged

APBI 467-B_001  APBI 467-B_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning In Person Learning Arranged Arranged

APBI 467-B_002  APBI 467-B_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning In Person Learning Arranged Arranged

APBI 467-C_001  APBI 467-C_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning In Person Learning Arranged Arranged

APBI 467-C_002  APBI 467-C_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning In Person Learning Arranged Arranged
APBI V 497 D_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged
APBI V 497 D_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged
APBI V 497 E_101 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged
APBI V 497 E_102 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged
APPP 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
APPP 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
APPP V 499 101 Undergraduate Thesis W1 Design and execution of an experiment/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 499 102 Undergraduate Thesis W2 Design and execution of an experiment/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 500 101 APPP V 101 Project Management and Leadership W2 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. Mon Wed 8:00 a.m. - 10:00 a.m.
APPP V 500 102 APPP V 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. Mon Wed 8:00 a.m. - 10:00 a.m.
APPP V 500 103 APPP V 103 Sustainability and Leadership W2 Behaviour of people and groups and its application to management and leadership within professional organizations; motivation, group dynamics, and organizational structures; 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. Mon Wed 10:00 a.m. - 12:00 p.m.
APPP V 500 104 APPP V 104 Organizational Leadership W2 Behaviour of people and groups and its application to management and leadership within professional organizations; motivation, group dynamics, and organizational structures; 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. Mon Wed 8:00 a.m. - 10:00 a.m.
APPP V 500 105 APPP V 105 Organizational Leadership 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. Mon Wed 10:00 a.m. - 12:00 p.m.
APPP V 506 C_100 APPP V 100 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. Mon Wed 12:00 p.m. - 1:30 p.m.
APPP V 506 C_101 APPP V 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. Mon Wed 12:00 p.m. - 1:30 p.m.
APPP V 506 C_102 APPP V 102 Capstone Project 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, principal, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] Mon Wed 8:00 a.m. - 9:30 a.m.
APPP V 506 C_103 APPP V 103 Capstone Project 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, principal, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] Mon Wed 9:00 a.m. - 10:00 a.m.
APPP V 506 C_104 APPP V 104 Capstone Project 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, principal, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] Mon Wed 9:00 a.m. - 10:00 a.m.
APPP V 506 C_105 APPP V 105 Capstone Project 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, principal, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] Mon Wed 3:00 p.m. - 4:30 p.m.
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**Course Description:**
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] Prerequisite: APSC 100.
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<td>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 Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.</td>
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<td>APSC V 110-127</td>
<td>An introduction to the engineering profession including: the engineering design process, sustainability, prototype testing, introduction and application of the relevant foundational scientific principles, team functioning, engineering graphics, and technical communication. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Mon</td>
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<td>In Person Learning</td>
<td>Introduction to Computation in Engineering Design</td>
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<td>Introduction to Computation in Engineering Design</td>
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<td>In Person Learning</td>
<td>Introduction to Computation in Engineering Design</td>
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Grading: [3-2-0]

This course is not eligible for Credit/D/Fail grading.
Introduction to Computation in Engineering Design

12:00 p.m. - 2:00 p.m.

This course will introduce students to the basic concepts of computation in engineering design. Topics will include:

- Engineering tools
- Computer systems organization
- Programming languages

Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]
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<td>Engineering Analysis II</td>
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**Notes:**
- Credit/D/Fail grading.
- [2-2*-2*]

**Courses:**
- Engineering Analysis II
  - Prerequisite: APSC 172.
- Engineering Analysis II
  - Prerequisite: APSC 172.
- Electricity, Magnetism, and Waves
  - Prerequisite: APSC 176.
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<td>Matter and Energy I</td>
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<td>10:00 a.m. - 12:00 p.m.</td>
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**Course Descriptions:**

- **APSC 183-V63 (Matter and Energy I)**: Thermodynamics, 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. Prerequisite: APSC 110.

- **APSC 182-V63 (Matter and Energy I)**: Thermodynamics, 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. Prerequisite: APSC 110.

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<tr>
<td>APSC V 210-030</td>
<td>210</td>
<td>Co-operative Education Work Term</td>
<td>W1</td>
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<tr>
<td>APSC V 210-031</td>
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<tr>
<td>APSC V 210-032</td>
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</tr>
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</table>
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

APSC-V 262-101  APSC-V 262 101 Technology and Society II W1

APSC-V 262-102  APSC-V 262 102 Technology and Society II W1

APSC-V 262-103  APSC-V 262 103 Technology and Society II W1

APSC-V 262-104  APSC-V 262 104 Technology and Society II W1

APSC-V 262-105  APSC-V 262 105 Technology and Society II W1

APSC-V 262-106  APSC-V 262 106 Technology and Society II W1

APSC-V 262-201  APSC-V 262 201 Technology and Society II W2

APSC-V 262-202  APSC-V 262 202 Technology and Society II W2

APSC-V 262-203  APSC-V 262 203 Technology and Society II W2

APSC-V 262-204  APSC-V 262 204 Technology and Society II W2

APSC-V 262-205  APSC-V 262 205 Technology and Society II W2

APSC-V 262-206  APSC-V 262 206 Technology and Society II W2

APSC-V 262-207  APSC-V 262 207 Technology and Society II W2

APSC-V 262-208  APSC-V 262 208 Technology and Society II W2

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

APSC-V 263-201  APSC-V 263 201 Technology and Development W2

APSC-V 263-202  APSC-V 263 202 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. [0-2*-0]

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.

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. [0-2*-0]

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
Engineering Materials Laboratory
Co-operative Education Work Term

Arranged
W2
Arranged
W1
Arranged

Engineering Materials Laboratory
Arranged
Co-operative Education Work Term
12:30 p.m. - 2:30 p.m.

310
218
609
W2
608
607
5:00 p.m. - 7:00 p.m.

W2
Arranged
Arranged
W2
Arranged
Engineering Materials Laboratory
W2
Arranged
Thu (Alternate weeks)
12:30 p.m. - 2:30 p.m.

279
W2
Engineering Materials Laboratory
279
279
W2
Engineering Materials Laboratory
279
279
W2
Engineering Materials Laboratory
W2
Arranged
Wed (Alternate weeks)
5:00 p.m. - 7:00 p.m.

W2
Arranged
Arranged
213
Engineering Materials Laboratory
279
310
Arranged
611
310
601
211
In Person Learning
Co-operative Education Work Term
Arranged
In Person Learning
In Person Learning
In Person Learning

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. 

Corequisite: APSC 278 may be taken.

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]

Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers,
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Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers,
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Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers,
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<th>Format</th>
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<td>APSC 310-415</td>
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<td>APSC 310-416</td>
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<td>In Person Learning</td>
<td>Co-operative Education Work Term (W1) Arranged</td>
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<td>APSC 310-417</td>
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<td>APSC 310-418</td>
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<td>APSC 310-420</td>
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<td>Co-operative Education Work Term (W1) Arranged</td>
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<tr>
<td>APSC 310-421</td>
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<td>In Person Learning</td>
<td>Co-operative Education Work Term (W1) Arranged</td>
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<td>APSC 310-422</td>
<td>3.0</td>
<td>In Person Learning</td>
<td>Co-operative Education Work Term (W1) Arranged</td>
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</table>

**Humanitarian Engineering: Politics and Practice**

Credits: 3-0-0

Identification, and problem solving. This course is not eligible for Credit/D/Fail grading.

Components for practical advancement of initiatives in innovation, product development, market development contexts with emphasis on the application of engineering. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>APSC 410</td>
<td>4.00</td>
<td>Living Language, Science and Society</td>
<td>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.</td>
<td>W1</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Online Learning</td>
<td>Mon Wed</td>
<td>Online Learning</td>
</tr>
</tbody>
</table>
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.

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<td>APSC_V 411-610</td>
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<td>Co-operative Education Work Term</td>
<td>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.</td>
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<td>APSC_V 411-611</td>
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<td>Co-operative Education Work Term</td>
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<td>APSC_V 411-612</td>
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<td>Co-operative Education Work Term</td>
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<td>APSC_V 411-617</td>
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<td>Co-operative Education Work Term</td>
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<td>APSC_V 411-618</td>
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<td>Co-operative Education Work Term</td>
<td>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.</td>
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<tr>
<td>APSC_V 411-619</td>
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<td>Co-operative Education Work Term</td>
<td>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.</td>
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<td>APSC_V 411-623</td>
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Co-operative Education Work Term

411

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.

617

In Person Learning

W1

Arranged

Arranged
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<td>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.</td>
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<td>Co-operative Education Work Term W2</td>
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Requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.
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<td>APSC 486-002</td>
<td>4.0</td>
<td>New Venture Design</td>
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<td>APSC 486-A_001</td>
<td>4.0</td>
<td>A_001 Interdisciplinary Engineering Design Project</td>
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<td>APSC 486-E_001</td>
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<td>E_001 Interdisciplinary Engineering Design Project</td>
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**APSC 486-001 New Venture Design**
Teams comprising students in APSC 486 and COMM 466 create a business plan and prototype or engineering solutions of a novel product, process, or process component. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing in Engineering.

**APSC 486-002 New Venture Design**
Teams comprising students in APSC 486 and COMM 466 create a business plan and prototype or engineering solutions of a novel product, process, or process component. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing in Engineering.

**APSC 486-A_001 A_001 Interdisciplinary Engineering Design Project**
Projects involving students from several departments. This course is not eligible for Credit/D/Fail grading.

**APSC 486-E_001 E_001 Interdisciplinary Engineering Design Project**
Projects involving students from several departments. This course is not eligible for Credit/D/Fail grading.

**APSC 486-E_002 E_002 Interdisciplinary Engineering Design Project**
Projects involving students from several departments. This course is not eligible for Credit/D/Fail grading.

**APSC 520-100 Co-operative Education Work Term I**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-101 Co-operative Education Work Term I**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-200 Co-operative Education Work Term I**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-201 Co-operative Education Work Term I**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-300 Co-operative Education Work Term II**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-301 Co-operative Education Work Term II**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-302 Co-operative Education Work Term II**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-400 Co-operative Education Work Term II**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-401 Co-operative Education Work Term II**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-402 Co-operative Education Work Term II**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

**APSC 520-403 Co-operative Education Work Term II**
Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Full-time Co-op assignment(s) required. Restricted to graduate degree students meeting requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.
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<td>APSC_V 540-101</td>
<td>Entrepreneurial Thinking for Applied Scientists</td>
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<td>Technology Entrepreneurship for Engineers</td>
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<td>Ecological Sustainability of Aquaculture</td>
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<td>Advanced Studies in Modern Arabic Language and Cultures</td>
<td>Wed</td>
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<td>Advanced Studies in Modern Arabic Language and Cultures</td>
<td>Fri</td>
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This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.
ARCH_V 504 F 201
Topics in Architectural History (Pre-1900)
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 504 F 202
Topics in Architectural History (Pre-1900)
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 504 F 201
Topics in Architectural History (Pre-1900)
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 504 F 201
Topics in Architectural History (Pre-1900)
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 505 A 101
Topics in Architectural History (1900-Present)
In Person Learning
Arranged

ARCH_V 505 B 201
Topics in Architectural History (1900-Present)
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 505 D 101
Topics in Architectural History (1900-Present)
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 506 C 201
Topics in Architectural History (1900-Present)
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 506 D 201
Topics in Architectural History (1900-Present)
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 507 A 101
Architectural Technology I
In Person Learning
Arranged

ARCH_V 507 B 201
Architectural Technology II
In Person Learning
9:30 a.m. - 11:00 a.m.

ARCH_V 512 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 512 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 517 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 517 B 201
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.

ARCH_V 520 A 101
Architectural Design Studio III
In Person Learning
1:30 p.m. - 3:00 p.m.
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<td>Architectural Design Studio IV</td>
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<td>Contemporary Theories in Architecture</td>
<td>W2</td>
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<td>Architectural Structures II</td>
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<td>Environmental Systems and Controls II</td>
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<td>Architectural Design Studio V</td>
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<td>1:30 p.m. - 6:00 p.m.</td>
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<td>ARCH 520</td>
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<td>Architectural Design Studio V</td>
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<td>ARCH 520</td>
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<td>Architectural Design Studio V</td>
<td>W1</td>
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<td>Tue Fri</td>
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<td>ARCH 520</td>
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<td>Architectural Design Studio V</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Tue Fri</td>
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<td>ARCH 520</td>
<td>5</td>
<td>009</td>
<td>Architectural Design Studio V</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Tue Fri</td>
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<td>ARCH 520</td>
<td>5</td>
<td>010</td>
<td>Architectural Design Studio V</td>
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<td>Tue Fri</td>
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<td>ARCH 520</td>
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<td>ARCH 520</td>
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<td>ARCH 520</td>
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<td>ARCH 520</td>
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<tr>
<td>ARCH_V549-102</td>
<td>ARCH_V549</td>
<td>002</td>
<td>Professional Practice</td>
<td>W2 Ethical, legal and business context of professional practice, including contracts, project management. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Tues-Thurs 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>ARCH_V544-A_011</td>
<td>ARCH_V544</td>
<td>A</td>
<td>A_101</td>
<td>Seminar in Architecture</td>
<td>W1 An application of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<td>ARCH_V544-A_201</td>
<td>ARCH_V544</td>
<td>A</td>
<td>A_201</td>
<td>Seminar in Architecture</td>
<td>W2 An application of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<td>ARCH_V544_C_201</td>
<td>ARCH_V544</td>
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<td>C_201</td>
<td>Seminar in Architecture</td>
<td>W2 An application of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<td>ARCH_V544_D_201</td>
<td>ARCH_V544</td>
<td>D</td>
<td>D_201</td>
<td>Seminar in Architecture</td>
<td>W2 An application of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Wed 2:00 p.m. - 3:30 p.m.</td>
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<td>ARCH_V544-F_101</td>
<td>ARCH_V544</td>
<td>F</td>
<td>F_101</td>
<td>Seminar in Architecture</td>
<td>W1 An application of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Thurs 9:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>ARCH_V544-H_101</td>
<td>ARCH_V544</td>
<td>H</td>
<td>H_101</td>
<td>Seminar in Architecture</td>
<td>W1 An application of selected topics in architecture. Enrolment is limited to facilitate discussion. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Thurs 2:00 p.m. - 3:30 p.m.</td>
<td></td>
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<tr>
<td>ARCH_V545-A_001</td>
<td>ARCH_V545</td>
<td>A</td>
<td>A_001</td>
<td>Directed Studies in Architecture</td>
<td>W1 Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V545-A_002</td>
<td>ARCH_V545</td>
<td>A</td>
<td>A_002</td>
<td>Directed Studies in Architecture</td>
<td>W2 Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V545-B_001</td>
<td>ARCH_V545</td>
<td>B</td>
<td>B_001</td>
<td>Directed Studies in Architecture</td>
<td>W1 Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V545-B_002</td>
<td>ARCH_V545</td>
<td>B</td>
<td>B_002</td>
<td>Directed Studies in Architecture</td>
<td>W2 Directed research and exploration of selected topics in architecture. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V548-101</td>
<td>ARCH_V548</td>
<td>001</td>
<td>Graduate Project Part I</td>
<td>W1 Preparation of a graduation design project including literature review. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Wed 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ARCH_V548-102</td>
<td>ARCH_V548</td>
<td>002</td>
<td>Graduate Project Part I</td>
<td>W2 Preparation of a graduation design project including literature review. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Mon 2:00 p.m. - 5:00 p.m.</td>
<td></td>
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<tr>
<td>ARCH_V548-101</td>
<td>ARCH_V548</td>
<td>101</td>
<td>Graduate Project Part II</td>
<td>W1 Design component, completion, and defense of the graduation design project. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V548-102</td>
<td>ARCH_V548</td>
<td>102</td>
<td>Graduate Project Part II</td>
<td>W2 Design component, completion, and defense of the graduation design project. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V548-201</td>
<td>ARCH_V548</td>
<td>201</td>
<td>Graduate Project Part II</td>
<td>W2 Design component, completion, and defense of the graduation design project. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V555-A_001</td>
<td>ARCH_V555</td>
<td>A</td>
<td>A_001</td>
<td>Co-operative Education</td>
<td>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.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V555-A_002</td>
<td>ARCH_V555</td>
<td>A</td>
<td>A_002</td>
<td>Co-operative Education</td>
<td>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.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<td>ARCH_V555-B_001</td>
<td>ARCH_V555</td>
<td>B</td>
<td>B_001</td>
<td>Co-operative Education</td>
<td>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.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V555-B_002</td>
<td>ARCH_V555</td>
<td>B</td>
<td>B_002</td>
<td>Co-operative Education</td>
<td>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.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V574-201</td>
<td>ARCH_V574</td>
<td>201</td>
<td>Green Building Contemporary Practice</td>
<td>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.</td>
<td>In Person Learning: Wed 3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>ARCH_V575-101</td>
<td>ARCH_V575</td>
<td>101</td>
<td>Regenerative Development</td>
<td>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 in which they can offer new insights and directions for design. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Fri 9:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>ARCH_V575-102</td>
<td>ARCH_V575</td>
<td>102</td>
<td>Regenerative Development</td>
<td>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.</td>
<td>In Person Learning: Arranged: Arranged</td>
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<tr>
<td>ARCH_V597-F_001</td>
<td>ARCH_V597</td>
<td>F</td>
<td>F_001</td>
<td>Special Topics</td>
<td>W1 Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Mon 10:00 a.m. - 12:30 p.m.</td>
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</table>
**ARCH_V 507-001** ARCH_V 507 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. - 12:00 p.m.

**ARCH_V 507-002** ARCH_V 507 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. - 12:00 p.m.

**ARCH_V 507-003** ARCH_V 507 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 Wed 11:00 a.m. - 12:00 p.m.

**ARCH_V 507-004** ARCH_V 507 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 Wed 11:00 a.m. - 12:00 p.m.

**ARCH_V 508-001** ARCH_V 508 001 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 508-002** ARCH_V 508 002 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 508-003** ARCH_V 508 003 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

**ARCH_V 103-001** ARCH_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.

**ARCH_V 103-01A** ARCH_V 103 01A 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.

**ARCH_V 103-01B** ARCH_V 103 01B 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.

**ARCH_V 103-01C** ARCH_V 103 01C 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.

**ARCH_V 103-01D** ARCH_V 103 01D 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.

**ARCH_V 103-01E** ARCH_V 103 01E 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.

**ARCH_V 140-001** ARCH_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.

**ARCH_V 140-01A** ARCH_V 140 01A 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.

**ARCH_V 140-01B** ARCH_V 140 01B 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.

**ARCH_V 140-01C** ARCH_V 140 01C 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.

**ARCH_V 140-01D** ARCH_V 140 01D 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.

**ARCH_V 140-01E** ARCH_V 140 01E 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.

**ARCH_V 140-01F** ARCH_V 140 01F 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.

**ARCH_V 140-01G** ARCH_V 140 01G 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.

**ARCH_V 140-01H** ARCH_V 140 01H 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.

**ARCH_V 203-001** ARCH_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.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Type</th>
<th>Instruction Method</th>
<th>Credits</th>
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<tr>
<td>W2 228-001</td>
<td>Forensic Anthropology</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>4.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W2 228-002</td>
<td>Forensic Anthropology</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>4.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W2 225-001</td>
<td>Turning the Wild: Animals, Alcohol and Agriculture</td>
<td>How, when and why humans became dependent on cultivated foods and domestic animals and the methods used to document plant and animal domestication.</td>
<td>In Person Learning</td>
<td>Mon-Wed Fri</td>
<td>2.00</td>
<td>9:00 a.m. - 11:30 a.m.</td>
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<tr>
<td>W1 305-001</td>
<td>Archaeological Interpretation</td>
<td>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, materials and symbolic systems, social inequality and complexity, and human-environmental interactions.</td>
<td>In Person Learning</td>
<td>Mon-Wed Fri</td>
<td>12.00</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>W2 228-001</td>
<td>The Archaeology of Collapse and Sustainability</td>
<td>An evaluation of the issues of sustainability and collapse of ecological and social systems through the archaeological study of the past.</td>
<td>In Person Learning</td>
<td>Mon-Wed Fri</td>
<td>9.00</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>W1 305-A_001</td>
<td>Paleoanthropology</td>
<td>Origins and development of the hominids; the hominid fossil record, and theories relating to human evolution.</td>
<td>In Person Learning</td>
<td>Mon-Wed Fri</td>
<td>2.00</td>
<td>9:00 a.m. - 11:30 a.m.</td>
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<td>W1 405-001</td>
<td>Archaeological and Anthropological Mapping</td>
<td>Current methods in mapping spatial information in archaeology and related subfields of anthropology.</td>
<td>In Person Learning</td>
<td>Mon-Wed Fri</td>
<td>11.00</td>
<td>11:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>W1 419-001</td>
<td>The Archaeology of Death</td>
<td>A survey of methods, theory, and case-studies in mortuary archaeology, Prerequisite: ARCL 203.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>2.00</td>
<td>2:00 p.m. - 4:30 p.m.</td>
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<td>W1 500-001</td>
<td>Information Technology and Archives</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 510-001</td>
<td>Archival Diplomastics</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<td>W1 515-001</td>
<td>Arrangement and Description of Archives</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 516-002</td>
<td>Management of Current Records</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<td>W1 517-002</td>
<td>History of Record Keeping</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 520-002</td>
<td>Selection and Acquisition of Archival Documents</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 540-001</td>
<td>Archival Public Services</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Online Learning</td>
<td>Wed</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 554-001</td>
<td>Database Design</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 554-002</td>
<td>Database Design</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>W1 555-002</td>
<td>The Preservation of Digital Records</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 556-A_002</td>
<td>Topics in Archival Automation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<td>W1 556-L_001</td>
<td>Topics in Archival Automation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 556-P_001</td>
<td>Topics in Archival Automation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>9.00</td>
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<td>W1 556-Q_002</td>
<td>Topics in Archival Automation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>W1 565-003</td>
<td>Administering Records under Freedom of Information and Protection of Privacy</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>W1 570-001</td>
<td>Management of Information Organizations</td>
<td>Credit will only be granted for one of ARST 570 or LIBR 504. This course is not eligible for Credit/D/Fail grading. Equivalency: LIBR 504</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9.00</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<td>Type</td>
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<td>End Time</td>
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<td>ARST_V 570-002</td>
<td>Management of Information Organizations</td>
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<td>In Person Learning</td>
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<tr>
<td>ARST_V 573-001</td>
<td>Archival Systems and the Profession</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m.</td>
<td>5:00 p.m.</td>
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<tr>
<td>ARST_V 575-002</td>
<td>Topics in the Management of Records</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m.</td>
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<tr>
<td>ARST_V 585-002</td>
<td>Information Practice and Protocol in Support of Indigenous Initiatives</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m.</td>
<td>5:00 p.m.</td>
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<tr>
<td>ARST_V 586-002</td>
<td>Progressive and Radical Information Work</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m.</td>
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<td>ARST_V 587-001</td>
<td>Preservation</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>ARST_V 587-002</td>
<td>Preservation</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m.</td>
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<tr>
<td>ARST_V 591-002</td>
<td>Archival Research and Scholarship</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m.</td>
<td>5:00 p.m.</td>
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<td>ARST_V 592-A_001</td>
<td>Directed Research Project</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>In Person Learning</td>
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<td>W1</td>
<td>In Person Learning</td>
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<td>W1</td>
<td>In Person Learning</td>
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<td>ARST_V 595-002</td>
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<td>W1</td>
<td>In Person Learning</td>
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<td>ARST_V 596-001</td>
<td>Professional Experience</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>ARST_V 596-002</td>
<td>Professional Experience</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>ARST_V 596-003</td>
<td>Professional Experience</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>ARST_V 598-A_001</td>
<td>Thesis</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
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<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>ARST_V 598-A_003</td>
<td>Thesis</td>
<td>W1</td>
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<td>ARST_V 598-B_002</td>
<td>Thesis</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m.</td>
<td>5:00 p.m.</td>
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</tbody>
</table>
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.

Recommended pre-requisite: ARTC 110.

Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 200.

Search term to obtain second work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. This course is not eligible for Credit/D/Fail grading. Restriction to students in the Arts Co-op Program. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 110.

Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 200.
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. Reflection assignments required. Credit will be granted for only one of ARTC 110 or 210. ARTC 210 can be taken at the same time as ARTC 310. Pass/Fail. Recommended pre-requisite: ARTC 200. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 110. Recommended pre-requisites: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 110. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisite: one of ARTC 310 and 311. ARTC 310 can be taken at the same time as ARTC 400. Pass/Fail. Recommended pre-requisites: one of ARTC 310 and 311. ARTC 311 can be taken at the same time as ARTC 400. Pass/Fail. Recommended pre-requisite: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisites: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of ARTC 210, 211. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of ARTC 210, 211. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of ARTC 210, 211. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisite: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of ARTC 210, 211. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisite: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisite: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of ARTC 210, 211. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisite: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of ARTC 210, 211. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisite: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisite: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ARTC 200. Recommended pre-requisites: one of ARTC 310 and 311. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Work Term</th>
<th>Work Term Notes</th>
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<tr>
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<tr>
<td>ARTC 400-01W</td>
<td>Arts Co-op Search Term #4</td>
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<tr>
<td>ARTC 411-01W</td>
<td>Arts Co-op Work Term #5</td>
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<tr>
<td>ARTC 411-01W</td>
<td>Extension of co-op term with the same employer as ARTC 411</td>
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<tr>
<td>ARTC 445-01F</td>
<td>Arts Co-op Search Term #5</td>
<td>Arranged</td>
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<tr>
<td>ARTC 445-01F</td>
<td>Arts Co-op Search Term #5 (Extension)</td>
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<td>ARTC 445-01W</td>
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<tr>
<td>ARTC 450-01W</td>
<td>Arts Co-op Search Term #6</td>
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<tr>
<td>ARTC 450-01W</td>
<td>Arts Co-op Search Term #6 (Extension)</td>
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<td>ARTC 451-01F</td>
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<td>ARTC 451-01F</td>
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<td>ARTC 456-01F</td>
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<td>ARTC 456-01F</td>
<td>Arts Co-op Search Term #5 (Extension)</td>
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</tr>
</tbody>
</table>

**Credits/Grading:**
- Optionals are open to students who have completed ARTC 310 and ARTC 311.
- Optionals are not eligible for Credit/D/Fail grading.

**Requisites:**
- Students must complete one of ARTC 310, ARTC 311 for each optional work term.
- Students will be assigned individual coach and/or coaching sessions.

**Prerequisites:**
- Recommended pre-requisites are:
  - ARTC 310, ARTC 311 for ARTC 400, ARTC 410, ARTC 411.
  - ARTC 410, ARTC 411, ARTC 445 for ARTC 450, ARTC 451, ARTC 456.

**Grading:**
- All courses are Pass/Fail.

**Notes:**
- Students apply for jobs and go for interviews until they are offered employment. ARTC 410 and 411 can be taken at the same time as ARTC 445. Pass/Fail.
- Recommended pre-requisites:
  - one of ARTC 310, ARTC 311.
  - ARTC 410, ARTC 411.
  - ARTC 445.

**Optional Work Term Notes:**
- Students will work 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 410 and 411. Pass/Fail.
- Recommended pre-requisites:
  - one of ARTC 310, ARTC 311.
  - ARTC 410, ARTC 411.

**Additional Notes:**
- Students will attend a weekly career coaches session. Students will work 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 410 and 411. Pass/Fail.
- Recommended pre-requisites:
  - one of ARTC 310, ARTC 311.

**Search Term Notes:**
- Students are encouraged to search for work opportunities in their field. Credit will be granted for only one of ARTC 410 and 411. Pass/Fail.
- Recommended pre-requisites:
  - one of ARTC 310, ARTC 311.
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-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  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-requisites: ARTC 456. 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 101-011  ARTH_V 101 011  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 101-012  ARTH_V 101 012  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 101-013  ARTH_V 101 013  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 101-014  ARTH_V 101 014  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  2:00 p.m. - 3:10 p.m.

ARTH_V 101-015  ARTH_V 101 015  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 101-016  ARTH_V 101 016  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 Contraction 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 102-011  ARTH_V 102 011  Crisis and Contraction 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. - 2:10 p.m.

ARTH_V 102-012  ARTH_V 102 012  Crisis and Contraction 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. - 2:10 p.m.

ARTH_V 102-013  ARTH_V 102 013  Crisis and Contraction 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 102-014  ARTH_V 102 014  Crisis and Contraction 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 102-015  ARTH_V 102 015  Crisis and Contraction 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. - 6:00 p.m.

ARTH_V 102-016  ARTH_V 102 016  Crisis and Contraction 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. - 5:50 p.m.

ARTH_V 210-001  ARTH_V 210 001  Byzantium: Arts of an Empire  W1  An in-depth study of the relationship between patrons and audiences in painting, sculpture, and architecture through the 10th century.  In Person Learning  Tue  10:00 a.m. - 12:00 p.m.
**ARTH_V** 225-001  
**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** 225-002  
**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  
Th  
10:00 a.m. - 11:00 a.m.

**ARTH_V** 225-003  
**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  
Th  
11:00 a.m. - 12:00 p.m.

**ARTH_V** 227-001  
**ARTH_V** 227  
W1  
What is Modern Art?  
Select issues in 20th-century art and the visual and built environment.  
In Person Learning  
Tue  
3:00 p.m. - 5:30 p.m.

**ARTH_V** 227-002  
**ARTH_V** 227  
W1  
What is Modern Art?  
Select issues in 20th-century art and the visual and built environment.  
In Person Learning  
Tue  
2:00 p.m. - 4:30 p.m.

**ARTH_V** 227-003  
**ARTH_V** 227  
W1  
What is Modern Art?  
Select issues in 20th-century art and the visual and built environment.  
In Person Learning  
Thu  
1:00 p.m. - 3:00 p.m.

**ARTH_V** 227-004  
**ARTH_V** 227  
W2  
What is Modern Art?  
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** 227-005  
**ARTH_V** 227  
W2  
What is Modern Art?  
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** 227-006  
**ARTH_V** 227  
W2  
What is Modern Art?  
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  
W1  
Asian Arts: From Chinese Warriors to Bollywood Posters  
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  
Tue Thu  
11:00 a.m. - 12:30 p.m.

**ARTH_V** 253-001  
**ARTH_V** 253  
W2  
Asian Architecture: Sacred and Urban Spaces  
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. - 5:30 p.m.

**ARTH_V** 262-001  
**ARTH_V** 262  
W1  
Indigenous Arts of North America  
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. - 3:00 p.m.

**ARTH_V** 300-001  
**ARTH_V** 300  
W1  
Seminar on Methods and Approaches in Art History  
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  
W2  
Seminar on Methods and Approaches in Art History  
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  
W1  
Arts of Africa and the African Diasporas  
Comparative exploration of art practices and their relationship to colonial and postcolonial histories. Credit will be granted for only one of ARTH 309 or ARTH 310. Equivalency: ARTH 309.  
In Person Learning  
Tue Thu  
10:00 a.m. - 12:30 p.m.

**ARTH_V** 339-001  
**ARTH_V** 339  
W1  
The Archaeology of Ancient Iraq and Syria: Babylon and Beyond  
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. 400 BCE). AMNE 378 recommended as preparation. Credit will only be granted for one of ARTH 326, CNRS 333, or AMNE 378. Equivalency: AMNE 378.  
In Person Learning  
Mon Wed Fri  
1:00 p.m. - 2:00 p.m.

**ARTH_V** 393-001  
**ARTH_V** 393  
W1  
Heaven and Earth: Renaissance Art and Culture in Northern Europe  
A thematic examination of artistic trends, such as historic, religious, and secular painting and sculpture contemporary to visual culture.  
In Person Learning  
Tue Thu  
11:00 a.m. - 12:30 p.m.

**ARTH_V** 393-002  
**ARTH_V** 393  
W1  
Heaven and Earth: Renaissance Art and Culture in Northern Europe  
A thematic examination of artistic trends, such as historic, religious, and secular painting and sculpture contemporary to visual culture.  
In Person Learning  
Tue Thu  
11:00 a.m. - 12:30 p.m.

**ARTH_V** 393-003  
**ARTH_V** 393  
W1  
Heaven and Earth: Renaissance Art and Culture in Northern Europe  
A thematic examination of artistic trends, such as historic, religious, and secular painting and sculpture contemporary to visual culture.  
In Person Learning  
Tue Thu  
11:00 a.m. - 12:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH_V 445-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Tue Wed 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 450-001</td>
<td>Performance Actions and Approaches</td>
<td>1.00</td>
<td>W2 Thu 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 451-001</td>
<td>Seminar in Early Modern Art</td>
<td>3.00</td>
<td>W1 Tue Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 452-001</td>
<td>Seminar in the Art of the Middle Ages</td>
<td>3.00</td>
<td>W1 Thu 3:30 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 453-001</td>
<td>Art in Japan: Objects and Spaces</td>
<td>3.00</td>
<td>W1 Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ARTH_V 454-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 456-001</td>
<td>Seminar in North American Indigenous Art</td>
<td>3.00</td>
<td>W1 Tue Thu 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 457-001</td>
<td>Seminar in Chinese Art</td>
<td>3.00</td>
<td>W1 Tue Thu 3:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 459-001</td>
<td>Seminar in the Art of the Middle Ages</td>
<td>3.00</td>
<td>W1 Thu 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 460-001</td>
<td>Visual and Digital Media Theory</td>
<td>3.00</td>
<td>W1 Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ARTH_V 465-001</td>
<td>Film and the City</td>
<td>3.00</td>
<td>W2 Wed 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 466-001</td>
<td>B</td>
<td>B</td>
<td>W2 Wed 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 468-001</td>
<td>Visual and Digital Media Theory</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 470-001</td>
<td>History of Photography: Archive, Spectacle, Reality</td>
<td>3.00</td>
<td>W1 Tue Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 471-001</td>
<td>History of Photography: Archive, Spectacle, Reality</td>
<td>3.00</td>
<td>W1 Tue Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 473-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 474-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 475-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 476-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 477-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 478-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 479-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ARTH_V 480-001</td>
<td>Art as Technology</td>
<td>3.00</td>
<td>W1 Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
</tbody>
</table>

This course is not eligible for Credit/D/Fail grading.
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.
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.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

ASA_V 100-011

ASA_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

10:00 a.m. - 12:00 p.m.

ASA_V 101-021

ASA_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. - 12:00 p.m.

ASA_V 110-021

ASA_V

110
021

Introduction to Religion in Asia

W2

A survey of religious traditions of Asia, including communities, professionals, 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. - 3:00 p.m.

ASA_V 200-011

ASA_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.

ASA_V 200-021

ASA_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.

ASA_V 208-021

ASA_V

208
021

Cultural Foundations of South Asia

W2

A survey of South Asian cultures, including language and literature, art, religion, politics 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.

ASA_V 210-021

ASA_V

210
021

Traditions of Yoga

W2

Philosophical, religious, and cultural development of yoga in classical and medieval South Asia and its relevance to contemporary globalized practice.

In Person Learning

Wed

4:00 p.m. - 7:00 p.m.

ASA_V 212-011

ASA_V

212
011

Writing About Japan

W1

Literary, historiographic, religious, and feminist approaches to Japanese myths, legal texts, religious tales, fiction, and poetry.

In Person Learning

Tue Thu

12:30 p.m. - 2:00 p.m.

ASA_V 250-011

ASA_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

ASA_V 250-012

ASA_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

ASA_V 250-013

ASA_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

ASA_V 250-014

ASA_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

ASA_V 250-021

ASA_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

ASA_V 250-022

ASA_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.

ASA_V 250-023

ASA_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.

ASA_V 250-024

ASA_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

ASA_V 254-011

ASA_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; reviews will be submitted.

In Person Learning

Arranged

Arranged

ASA_V 254-021

ASA_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; reviews will be submitted.

In Person Learning

Arranged

Arranged

ASA_V 258-021

ASA_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.

ASA_V 300-011

ASA_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), kana (Japanese), or hanja (Korean) - throughout the regions.

In Person Learning

Mon Wed

9:30 a.m. - 11:00 a.m.

ASA_V 305-021

ASA_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. - 3:00 p.m.

ASA_V 308-011

ASA_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 310-011  ASIA_V 308-011 South Asian Beyond South Asia  W1  A History of South Asian peoples and communities that emigrated overseas, including Indo-
Canadians.  Online Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

ASIA_V 310-H_011  ASIA_V 310-011 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 310-012 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 310-013 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 310-014 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 310-015 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 310-016 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 310-017 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 310-018 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 310-019 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 310-020 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 310-021 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 310-022 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 310-023 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 310-024 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 matrix, 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 313-001  ASIA_V 313-001 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 314-001  ASIA_V 314-001 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 314-002  ASIA_V 314-002 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 1467 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 319-001  ASIA_V 319-001 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 experiences, and globalization.  In Person Learning  Wed Fri  11:00 a.m. - 12:30 p.m.

ASIA_V 320-001  ASIA_V 320-001 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 320-002  ASIA_V 320-002 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.
A critical introduction to Japanese manga and anime in the 20th and 21st centuries.

Korean Popular Music in Context

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 distinctly Hong Kong.

Literature of Hong Kong

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

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 (fics, essays, and fiction).

Critical Approaches to Manga and Anime

In Person Learning

Literature of Hong Kong

In Person Learning

Korean Popular Music in Context

Online Learning

Korean Popular Music in Context

In Person Learning

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.

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ASIA_V 327-026  ASIA_V 327  O26  Korean Popular Music in Context  W2

ASIA_V 328-011  ASIA_V 328  O11  Modern Islam  W1

ASIA_V 333-011  ASIA_V 333  O11  Contemporary South Asian Gender and Sexuality Studies  W1

ASIA_V 333-021  ASIA_V 333  O21  Contemporary South Asian Gender and Sexuality Studies  W2

ASIA_V 334-021  ASIA_V 334  O21  Writing Women in Premodern East Asia  W1

ASIA_V 336-011  ASIA_V 336  O11  Sufi and Bhakti Devotional Literature  W1

ASIA_V 337-021  ASIA_V 337  O21  The Korean People in Modern Times (1945 to the present)  W2

ASIA_V 339-021  ASIA_V 339  O21  The Construction of South Asian Communities in the Diaspora  W2

ASIA_V 342-011  ASIA_V 342  O11  Chinese Literature in Translation: The Vernacular Tradition  W1

ASIA_V 346-A_011  ASIA_V 346  O_A011  Topics in Japanese Cultural History: Aristocrats and Warriors  W1

ASIA_V 346-A_021  ASIA_V 346  O_A021  Topics in Japanese Cultural History: The Early Modern Age  W2

ASIA_V 348-021  ASIA_V 348  O21  Poetic Life in Classical India  W2

ASIA_V 351-021  ASIA_V 351  O21  Modern Chinese Fiction in Translation  W1

ASIA_V 351-012  ASIA_V 351  O12  History of Chinese Cinema  W1

ASIA_V 351-021  ASIA_V 351  O21  History of Chinese Cinema  W2

ASIA_V 351-001  ASIA_V 351  O01  History of Chinese Cinema  W1

ASIA_V 353-001  ASIA_V 353  O01  History of Chinese Cinema  W1

ASIA_V 355-011  ASIA_V 355  O11  History of Chinese Cinema  W1

ASIA_V 355-001  ASIA_V 355  O01  History of Chinese Cinema  W1

ASIA_V 355-021  ASIA_V 355  O21  History of Chinese Cinema  W2

ASIA_V 355-022  ASIA_V 355  O22  History of Chinese Cinema  W2

ASIA_V 356-011  ASIA_V 356  O11  Korean Cinema  W1

ASIA_V 356-021  ASIA_V 356  O21  Korean Cinema  W2

ASIA_V 357-001  ASIA_V 357  O01  Korean Cinema  W1

ASIA_V 359-011  ASIA_V 359  O11  Modern Chinese Fiction in Translation  W1

ASIA_V 361-011  ASIA_V 361  O11  Modern Chinese Fiction in Translation II  W1

ASIA_V 362-011  ASIA_V 362  O11  Fiction and Film from Modern Taiwan  W1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credit</th>
<th>Description</th>
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<tr>
<td>ASIA 362-A</td>
<td>Fiction and Film from Modern Taiwan</td>
<td>W2</td>
<td>Online Learning Fri</td>
<td>A reading-intensive survey of history and cinematic culture in Taiwan since the early 20th century. Colonialism, the national state, culture, cinema, cosmopolitanism, and global imaginaries. Credit will only be granted for one of ASIA 362 or PHIL 362. Equivalency: PHIL 362</td>
</tr>
<tr>
<td>ASIA 364-A</td>
<td>Modern Japanese Literature in Translation</td>
<td>A, A</td>
<td>In Person Learning Fri</td>
<td>An introduction to the literature and cultural history of modern Japan, with readings drawn from various literary genres. Credit will only be granted for one of ASIA 364 or PHIL 364. Equivalency: PHIL 364</td>
</tr>
<tr>
<td>ASIA 365</td>
<td>Purjali Cinema</td>
<td>W2</td>
<td>In Person Learning Allocated</td>
<td>Purjali culture, history, and social values through films. The class includes film screenings and seminar discussions. Films will be subtitled. Credit will only be granted for one of ASIA 365 or HIST 365. Equivalency: HIST 365</td>
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<tr>
<td>ASIA 366-C</td>
<td>Topics in Asian Studies</td>
<td>C</td>
<td>Hybrid Learning Mon/Wed</td>
<td>Thematically-organized topics in Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings. Credit will only be granted for one of ASIA 366-C or HIST 366-C. Equivalency: HIST 366-C</td>
</tr>
<tr>
<td>ASIA 366-D</td>
<td>Topics in Asian Studies</td>
<td>D</td>
<td>In Person Learning Allocated</td>
<td>Thematically-organized topics in Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings. Credit will only be granted for one of ASIA 366-D or HIST 366-D. Equivalency: HIST 366-D</td>
</tr>
<tr>
<td>ASIA 366-E</td>
<td>Topics in Asian Studies</td>
<td>E</td>
<td>Online Learning Thu</td>
<td>Thematically-organized topics in Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings. Credit will only be granted for one of ASIA 366-E or HIST 366-E. Equivalency: HIST 366-E</td>
</tr>
<tr>
<td>ASIA 367</td>
<td>Contemporary Korean Culture</td>
<td>W1</td>
<td>In Person Learning Thu</td>
<td>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. Credit will only be granted for one of ASIA 367 or HIST 367. Equivalency: HIST 367</td>
</tr>
<tr>
<td>ASIA 368-A</td>
<td>Modern Literatures of South Asia in Translation</td>
<td>A</td>
<td>In Person Learning Allocated</td>
<td>Modern literatures, including fiction, drama, and/or poetry of modern India, Pakistan, Bangladesh, and/or Sri Lanka, including works in translation and/or originally written in English. Credit will only be granted for one of ASIA 368-A or PHIL 368. Equivalency: PHIL 368</td>
</tr>
<tr>
<td>ASIA 370</td>
<td>The Sanskrit Cosmopolis: India and the World, 200-1500 CE</td>
<td>W1</td>
<td>In Person Learning Mon/Wed</td>
<td>A survey of Sanskrit literature 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. Credit will only be granted for one of ASIA 370 or HIST 370. Equivalency: HIST 370</td>
</tr>
<tr>
<td>ASIA 371</td>
<td>Foundations of Chinese Thought</td>
<td>W1</td>
<td>In Person Learning Mon/Wed</td>
<td>Early 20th (21B) 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 ASIA 371 or PHIL 371. Equivalency: PHIL 371</td>
</tr>
<tr>
<td>ASIA 372</td>
<td>Foundations of Chinese Thought</td>
<td>W2</td>
<td>Online Learning Fri</td>
<td>Early 20th (21B) 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 ASIA 372 or PHIL 372. Equivalency: PHIL 372</td>
</tr>
<tr>
<td>ASIA 373</td>
<td>History of Hong Kong</td>
<td>W2</td>
<td>In Person Learning Mon</td>
<td>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</td>
</tr>
<tr>
<td>ASIA 375</td>
<td>Global Chinese Cinemas</td>
<td>W1</td>
<td>Hybrid Learning Thu</td>
<td>A survey of Chinese cinema 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. Credit will only be granted for one of ASIA 375 or HIST 375. Equivalency: HIST 375</td>
</tr>
<tr>
<td>ASIA 376</td>
<td>Chinese Grammar and Usage I</td>
<td>W1</td>
<td>Multi-access Learning Tue</td>
<td>An introduction to modern Chinese grammar and its usage in various discourses, charting its form and function in relation to social and cultural contexts. Recommended pre-requisites: One of CHIN 207, CHIN 257, CHIN 258, CHIN 259, CHIN 257, CHIN 258, CHIN 347, or a higher level of Chinese language proficiency. Credit will only be granted for one of ASIA 376 or PHIL 376. Equivalency: PHIL 376</td>
</tr>
<tr>
<td>ASIA 377</td>
<td>History of the Indian Ocean World</td>
<td>W1</td>
<td>Hybrid Learning Thu</td>
<td>A survey of important systems of Indian Ocean trading and migration, from the prehistoric to the modern era. Covers both historical and cultural dimensions. Credit will only be granted for one of ASIA 377 or PHIL 377. Equivalency: PHIL 377</td>
</tr>
<tr>
<td>ASIA 388</td>
<td>Classical South Asian Philosophy</td>
<td>W2</td>
<td>In Person Learning Mon/Wed</td>
<td>Classical South Asian 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 388 or PHIL 388. Equivalency: PHIL 388</td>
</tr>
<tr>
<td>ASIA 389</td>
<td>Classical Islam</td>
<td>W1</td>
<td>Online Learning Fri</td>
<td>A reading-intensive survey of Islamic thought, including its historical and cultural contexts. Recommended pre-requisites: One of CHIN 207, CHIN 257, CHIN 258, CHIN 347, CHIN 348, or a higher level of Chinese language proficiency. Credit will only be granted for one of ASIA 389 or PHIL 389. Equivalency: PHIL 389</td>
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<tr>
<td>ASIA 390</td>
<td>History of the Indian Ocean World</td>
<td>W1</td>
<td>In Person Learning Fri</td>
<td>A reading-intensive survey of the history of the Indian Ocean World, from the prehistoric to the modern era. Covers both historical and cultural dimensions. Credit will only be granted for one of ASIA 390 or PHIL 390. Equivalency: PHIL 390</td>
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<tr>
<td>ASIA 391</td>
<td>Classical Islam</td>
<td>W1</td>
<td>Online Learning Fri</td>
<td>A reading-intensive survey of Islamic thought, including its historical and cultural contexts. Recommended pre-requisites: One of CHIN 207, CHIN 257, CHIN 258, CHIN 347, CHIN 348, or a higher level of Chinese language proficiency. Credit will only be granted for one of ASIA 391 or PHIL 391. Equivalency: PHIL 391</td>
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<tr>
<td>ASIA 392</td>
<td>Post-Revolutionary Iranian Cinema</td>
<td>W1</td>
<td>Online Learning Thu</td>
<td>An introduction to the literature, drama, music, and art of Iran today. Particular attention will be paid to the continuing influence of traditional themes and forms. Credit will only be granted for one of ASIA 392 or HIST 392. Equivalency: HIST 392</td>
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<tr>
<td>ASIA 393</td>
<td>Modern Persian Literature</td>
<td>W2</td>
<td>Online Learning Thu</td>
<td>Modern Persian literature, including fiction, drama, and/or poetry, of Iran, Afghanistan, and/or Tajikistan dating from the mid-18th to the 21st century. Credit will only be granted for one of ASIA 393 or PHIL 393. Equivalency: PHIL 393</td>
</tr>
</tbody>
</table>
ASIA_V 396-021  ASIA_V 306  (02)  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 307  (02)  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 308  (02)  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. - 12:00 p.m.

ASIA_V 399-021  ASIA_V 309  (02)  Films of the South Asian Diaspora W2 Contemporary films of the South Asian Diaspora, with a focus on Canada, US, and/or. Emphasizes theories of representation, visual and cultural analysis. Online Learning Wed 2:00 p.m. - 3:30 p.m.

ASIA_V 410-021  ASIA_V 410  (02)  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 411-021  ASIA_V 411  (02)  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 412-021  ASIA_V 412  (02)  Economic History of India W2 Excerpts 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 420-021  ASIA_V 420  (02)  Japanese Women's Self-Writing W2 Reading of a classic novel or play, with attention to intellectual, social, and political contexts as well as aesthetic dimensions and problems of interpretation. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

ASIA_V 422-021  ASIA_V 422  (02)  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 430-021  ASIA_V 430  (02)  International Relations in Modern East Asia: Korea and Japan W2 Trade, diplomacy, war, imperialism, military, 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 433-021  ASIA_V 433  (02)  Representations of Muslims in Hindi/Urdu Films W2 Depictions of Muslims in relation to the majoritarian community as well as other minorities in South Asia (Sikh, with a particular focus on the Hindustani film industry. Prerequisite: Second year standing and above. Online Learning Mon 11:00 a.m. - 12:30 p.m.

ASIA_V 461-A 021  ASIA_V 461  (02)  Masterworks of Chinese Fiction and Drama in Translation W1 Reading of a classic novel or play, with attention to intellectual, social, and political contexts as well as aesthetic dimensions and problems of interpretation. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

ASIA_V 466-A 021  ASIA_V 466  (02)  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 470-021  ASIA_V 470  (02)  Comparative Conceptions of the Self W1 Ways in which the self has been portrayed in eastern and western religious traditions. Thicken to be considered include Aristotle, Mencius, Freud, Burri (Buddha), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be awarded for only one of ASIA 470 or PHIL 470. Equivalency: PHIL 470 Online Learning Tue Thu 11:00 a.m. - 2:00 p.m.

ASIA_V 486-021  ASIA_V 486  (02)  Japanese Horror W1 The genre of Japanese 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 490-H 021  ASIA_V 490  (02)  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 491-021  ASIA_V 491  (02)  India and the Postcolonial World W1 History of Muslim Empires, spanning Iran, India and Central Asia, from 1000-1500 CE. Examined through the conceptual lens of the Postcolonial World with emphasis on Postcolonial culture and power in South Asia. Restricted to fourth-year Asian Studies majors. In Person Learning Arranged Arranged
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Co-Requisites</th>
<th>Credit Value</th>
<th>Meeting Schedule</th>
<th>Grading Option</th>
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<tr>
<td>ASIA 495-021</td>
<td>ASIA_V 461 India and the Persianate World</td>
<td>W2</td>
<td></td>
<td>In Person Learning Tue 2.00 p.m. - 5:00 p.m.</td>
<td>In Person Learning Tue 2.00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ASIA 495-031</td>
<td>ASIA_V 495 Folk Cultures in the Asian Diaspora</td>
<td>W1</td>
<td></td>
<td>In Person Learning Tue 11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning Tue 11:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>ASIA 508-A_017</td>
<td>ASIA_V 508 A A_017 Topics in Pre-modern Chinese History and Institutions</td>
<td>W2</td>
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<tr>
<td>ASIA 508-B_017</td>
<td>ASIA_V 508 B R_017 Topics in Pre-modern Chinese History and Institutions</td>
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<td>ASIA 513-B_024</td>
<td>ASIA_V 513 B R_024 Topics in Classical Chinese Literature</td>
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<tr>
<td>ASIA 514-B_026</td>
<td>ASIA_V 514 B R_026 Topics in Modern Chinese Literature</td>
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<tr>
<td>ASIA 516-028</td>
<td>ASIA_V 516 O28 Race and Ethnicity in Asian Studies</td>
<td>W1</td>
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<tr>
<td>ASIA 517-025</td>
<td>ASIA_V 517 O25 Chinese Media Studies: Theories and Histories</td>
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<tr>
<td>ASIA 518-033</td>
<td>ASIA_V 518 O33 New Media and Asia</td>
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<tr>
<td>ASIA 519-001</td>
<td>ASIA_V 519 O01 Popular Cultures in Asia</td>
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<tr>
<td>ASIA 521-A_007</td>
<td>ASIA_V 521 A A_007 Research Methods and Source Materials in Japanese Studies</td>
<td>W1</td>
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<tr>
<td>ASIA 522-A_021</td>
<td>ASIA_V 522 A A_021 Topics in Traditional Japanese Literature</td>
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<td>ASIA 522-B_009</td>
<td>ASIA_V 522 B B_009 Topics in Traditional Japanese Literature</td>
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<tr>
<td>ASIA 525-003</td>
<td>ASIA_V 525 O03 Japanese Cineas Studies: Theory and Practice</td>
<td>W1</td>
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<tr>
<td>ASIA 570-B_040</td>
<td>ASIA_V 570 B R_040 Approaches to Asian Literature</td>
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<tr>
<td>ASIA 570-B_042</td>
<td>ASIA_V 570 B R_042 Approaches to Asian Literature</td>
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<tr>
<td>ASIA 570-B_046</td>
<td>ASIA_V 570 B R_046 From the Chosseol to the Archies: Cultures of History in South Asia</td>
<td>W2</td>
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<tr>
<td>ASIA 576-A_032</td>
<td>ASIA_V 576 A A_032 Topics in South Asian Studies</td>
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<td>ASIA 576-C_046</td>
<td>ASIA_V 576 C C_046 Topics in South Asian Studies</td>
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<td>ASIA 580-A_004</td>
<td>ASIA_V 580 A A_004 Directed Readings</td>
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<td>ASIA 580-A_006</td>
<td>ASIA_V 580 A A_006 Directed Readings</td>
<td>W2</td>
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<tr>
<td>ASIA 580-A_017</td>
<td>ASIA_V 580 A A_017 Directed Readings</td>
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<td>ASIA 580-A_028</td>
<td>ASIA_V 580 A A_028 Directed Readings</td>
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<td>ASIA_V 580-A_004</td>
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<td>A_004</td>
<td>Directed Readings</td>
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<td>ASIA_V 580-A_006</td>
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<td>A_006</td>
<td>Theories &amp; Methods Thinking with the Body Embodied Cognition and the Study of Culture</td>
<td>W2</td>
<td>Fri</td>
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<td>ASIA_V 580-b_004</td>
<td>B</td>
<td>B_004</td>
<td>Theories &amp; Methods Thinking with the Body Embodied Cognition and the Study of Culture</td>
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<tr>
<td>ASIA_V 580-000</td>
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<td>Critical Issues in Asian Studies</td>
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<td>ASIA_V 580-005</td>
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<td>The Profession of Asian Studies</td>
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<td>ASIA_V 599-A_001</td>
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<td>Master's Thesis</td>
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<td>ASIA_V 599-b_002</td>
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<td>B_002</td>
<td>Master's Thesis</td>
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<td>ASIA_V 599-b_101</td>
<td>B</td>
<td>B_101</td>
<td>Master's Thesis</td>
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<td>ASIA_V 699-001</td>
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<td>Doctoral Dissertation</td>
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<td>A_002</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
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<td>A_101</td>
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<td>ASC_V 220-0A2</td>
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<td>0A2</td>
<td>Global Issues in the Arts and Sciences</td>
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<td>ASC_V 220-0E1</td>
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<td>Introduction to Sustainability</td>
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<td>ASR_V 220-0E1</td>
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<td>Indigenousities in Asia and Asian Diaspora</td>
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<td>ASR_V 300-A_021</td>
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<td>A_021</td>
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<td>B_011</td>
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<td>ASR_V 300-D_011</td>
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<td>D_011</td>
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<td>021</td>
<td>Hong Kong Diaspora in Canada</td>
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<td>ASL_V 100-001</td>
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<td>001</td>
<td>American Sign Language and Deaf Culture I</td>
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<td>ASTR_V 101-101</td>
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<td>Introduction to the Solar System</td>
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<td>ASTR_V 101-L1A</td>
<td>101</td>
<td>L1A</td>
<td>Introduction to the Solar System</td>
<td>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.</td>
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<td>ASTR_V 101-L1B</td>
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<td>L1B</td>
<td>Introduction to the Solar System</td>
<td>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.</td>
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<td>L1C</td>
<td>Introduction to the Solar System</td>
<td>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.</td>
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<td>ASTR_V 101-L1D</td>
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<td>L1D</td>
<td>Introduction to the Solar System</td>
<td>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 10:00 a.m. - 12:00 p.m.</td>
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<td>ASTR_V 101-L1E</td>
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<td>Introduction to the Solar System</td>
<td>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.</td>
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<td>ASTR_V 101-L1F</td>
<td>101</td>
<td>L1F</td>
<td>Introduction to the Solar System</td>
<td>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.</td>
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</table>

**Notes:**

- 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*]
- A survey of recent discoveries about the planets and other objects in the solar system, without 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*]
- Prerequisite: One of EOSC 211, CPSC 302, CPSC 303. Corequisite: One of MATH 217, MATH 227, MATH 317.
- Measurement of positions, motions, and distances in astronomy. Temperature, masses, and spectra of stars. Hertzsprung-Russel diagram. Quantitative stellar structure and evolution. Chemical composition of stars in different Galactic populations. Globular and open clusters. [3-0-0] Prerequisite: ASTR 100 and one of PHYS 210, EDCG 211, CPSC 382, CPSC 305. In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.
- 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 100 and one of PHYS 210, EDCG 211, CPSC 382, CPSC 305. Corequisite: One of MATH 121, MATH 122, MATH 123. In Person Learning Fri 9:00 a.m. - 11:00 a.m.
- 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 102, PHYS 103, PHYS 107, PHYS 117, PHYS 118, PHYS 119, PHYS 120; or (b) SCI 201. In Person Learning Mon Fri 12:00 p.m. - 1:00 p.m.
- 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 102, PHYS 103, PHYS 107, PHYS 117, PHYS 118, PHYS 119, PHYS 120; or (b) SCI 201. In Person Learning Mon Fri 12:00 p.m. - 1:00 p.m.
- 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. - 12:00 p.m.
- 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. - 12:00 p.m.
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- 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. - 4:00 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 birth and evolution of the Universe. Not open to first-year students and not for credit in the Faculty of Science and Applied Science. [3-0-1]  In Person Learning  Mon Wed Fri  12:30 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 birth and evolution of the Universe. Not open to first-year students and not for credit in the Faculty 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 birth and evolution of the Universe. Not open to first-year students and not for credit in the Faculty 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 birth and evolution of the Universe. Not open to first-year students and not for credit in the Faculty of Science and Applied Science. [3-0-1]  In Person Learning  Tue  11:00 a.m. - 12:00 p.m.

ASTR_V 313-T2C  ASTR_V  313  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 birth and evolution of the Universe. Not open to first-year students and not for credit in the Faculty 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 birth and evolution of the Universe. Not open to first-year students and not for credit in the Faculty 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 exoplanets, including their formation, evolution, and potential for supporting life. (3-0-0) Prerequisite: One of PHYS 101, PHYS 102, PHYS 107, PHYS 108, PHYS 117, PHYS 118, PHYS 119, PHYS 121, PHYS 124, SCI 205 and one of MATH 225, MATH 227, MATH 229, STAT 201, STAT 202, STAT 204, BIO 206, COMO 201, ECON 205, EPSE 481, EPSE 482, EPSE 483, PHY 275, PHY 276, SOCI 240, PSYC 277, PSYC 278, PSYC 304, SCI 302.  In Person Learning  Arranged  Arranged

ASTR_V 333-201  ASTR_V  333  201  Exoplanets and Astrobiology  W2  Observations and basic characteristics of exoplanets, including their formation, evolution, and potential for supporting life. (3-0-0) Prerequisite: One of PHYS 101, PHYS 102, PHYS 107, PHYS 108, PHYS 117, PHYS 118, PHYS 119, PHYS 121, PHYS 124, SCI 205 and one of MATH 225, MATH 227, MATH 229, STAT 201, STAT 202, STAT 204, BIO 206, COMO 201, ECON 205, EPSE 481, EPSE 482, EPSE 483, PHY 275, PHY 276, SOCI 240, PSYC 277, PSYC 278, PSYC 304, SCI 302.  In Person Learning  Mon Wed Fri  2:00 p.m. - 3:00 p.m.

ASTR_V 348-001  ASTR_V  348  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, dark energy, the cosmic microwave background, large scale structure, galaxy formation and quasars. Credit will be granted for only one of ASTR 403 or PHYS 575. [3-0-0] Prerequisite: One of PHYS 200, PHYS 201, ASTR 300 is recommended.  In Person Learning  Tue Thu  11:00 a.m. - 12:00 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 212, MATH 216.  In Person Learning  Tue Thu  11:00 a.m. - 12:00 p.m.

ASTR_V 405-1A  ASTR_V  405  1A  Astronomical Laboratory  W2  Experiments in the use of astronomical instrumentation and data analysis. Use of the 60-cm reflector, spectrophotometric and electronic detectors. Photometric and spectroscopic analysis of digital data. (0-0-3) Prerequisite: [ASTR404].  In Person Learning  Mon Wed Fri  2:00 p.m. - 3:00 p.m.

ASTR_V 406-101  ASTR_V  406  101  High-Energy Astrophysics  W1  Radiation processes. White dwarfs, neutron stars, and black holes. Accreting systems. Gamma-ray bursts. (3-0-0) Prerequisite: All of PHYS 200, PHYS 201, MATH 215 and ASTR 300.  In Person Learning  Tue Thu  5:30 p.m. - 6:30 p.m.

ASTR_V 407-201  ASTR_V  407  201  Planetary Science  W2  Structure of planetary systems, planetary interiors, planetary atmospheres, planets, moons, meteoritics, impact cratering. (3-0-0) Prerequisite: One of PHYS 210, EDCG 211 and one of MATH 225, MATH 227, MATH 229 and one of MATH 228, MATH 229 and one of ASTR 200, EDCG 212.  In Person Learning  Mon Wed Fri  1:00 p.m. - 2:00 p.m.

ASTR_V 468-001  ASTR_V  468  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 505-4 201  ASTR_V  505  4 201  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. - 3:00 p.m.

ASTR_V 506-A 101  ASTR_V  506  A 101  High-Energy Astrophysics  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed Fri  9:30 a.m. - 11:00 a.m.

ASTR_V 507-A 201  ASTR_V  507  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.

ASTR_V 518-101  ASTR_V  518  101  Observational Astronomy  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue Thu  11:00 a.m. - 12:00 p.m.

ASTR_V 530-A 101  ASTR_V  530  A 101  Directed Studies in Astronomy  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

ASTR_V 530-B 102  ASTR_V  530  B 102  Directed Studies in Astronomy  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

ASTR_V 549-T 001  ASTR_V  549  T 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
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<td>546 T T_101 M.S. Thesis</td>
<td>W1</td>
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<td>CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. 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.</td>
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<tr>
<td>ASTR_V 546_Y_201</td>
<td>546 T T_201 M.S. Thesis</td>
<td>W2</td>
<td>1</td>
<td>CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. 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.</td>
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<td>ASTU_V 100-4_001</td>
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<td>ASTU_V 100-1_03</td>
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<td>ASTU_V 100-1_06</td>
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<td>ASTU_V 100-1_11</td>
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<td>ASTU_V 100-1_12</td>
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<td>The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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Restrictions: 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. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.

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.

Restrictions 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.

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ASTU_100-M_M01  ASTU_100-M_M02  ASTU_100-M_M03  ASTU_100-M_M04
100  100  100  100
M  M  M  M
MA_M01  MA_M02  MA_M03  MA_M04
1st Year CAP Seminar 1st Year CAP Seminar 1st Year CAP Seminar 1st Year CAP Seminar
W1-2  W1-2  W1-2  W1-2

CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credit is granted toward both the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit cannot be granted towards both MA 101 and CAP 101. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.

ASTU_201-D21  ASTU_201-D22  ASTU_201-D23  ASTU_201-D24
201  201  201  201
Canada, Japan and the Pacific: Cultural Studies  Canada, Japan and the Pacific: Cultural Studies  Canada, Japan and the Pacific: Cultural Studies  Canada, Japan and the Pacific: Cultural Studies
W2  W2  W2  W2

ASTU_401-A_V05  ASTU_401-B_V05  ASTU_401-C_V05  ASTU_401-D_V05
401  401  401  401
Topics in Interdisciplinary Arts Studies  Topics in Interdisciplinary Arts Studies  Topics in Interdisciplinary Arts Studies  Topics in Interdisciplinary Arts Studies
W1  W1  W1  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. Credit will be granted toward the Faculty of Arts Writing and Research Requirement and the Literature Requirement. Restricted to students in the Coordinated Arts Program. Credit cannot be granted towards both ASTU 100 and CAP 101. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTU_V 310-010</td>
<td>Co-operative Work Placement I</td>
<td>0.5</td>
<td>W1-2</td>
<td>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 from year 3 or 4. 6 credits of Breadth satisfaction of Faculty language requirement. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 311-010</td>
<td>Co-operative Work Placement II</td>
<td>1</td>
<td>W1</td>
<td>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</td>
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<td>ASTU_V 311-020</td>
<td>Co-operative Work Placement II</td>
<td>1</td>
<td>W2</td>
<td>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</td>
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<tr>
<td>ASTU_V 399-010</td>
<td>Special Topics: Race and Power</td>
<td>0.5</td>
<td>W2</td>
<td>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.</td>
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<tr>
<td>ASTU_V 400-D-001</td>
<td>Interdisciplinary Studies in Arts</td>
<td>4</td>
<td>W1-2</td>
<td>For upper-division students in the Faculty of Arts. Topics announced annually. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>ASTU_V 400-D-002</td>
<td>Interdisciplinary Studies in Arts</td>
<td>4</td>
<td>S</td>
<td>For upper-division students in the Faculty of Arts. Topics announced annually. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 401-D-001</td>
<td>Special Topics in Arts Studies</td>
<td>0.5</td>
<td>W2</td>
<td>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.</td>
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<tr>
<td>ASTU_V 402-101</td>
<td>Living Language: Science and Society</td>
<td>2</td>
<td>W1</td>
<td>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. Equivalencies: ASPS402, FRST402, LFS 402, LLED402, PAHL402 Online Learning Mon-Wed 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>ASTU_V 410-101</td>
<td>Co-operative Work Placement III</td>
<td>0.5</td>
<td>W1</td>
<td>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 310. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 410-201</td>
<td>Co-operative Work Placement III</td>
<td>0.5</td>
<td>W1-2</td>
<td>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 310. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>ASTU_V 411-101</td>
<td>Co-operative Work Placement IV</td>
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<td>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 310. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 411-201</td>
<td>Co-operative Work Placement IV</td>
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<td>W1-2</td>
<td>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 310. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 412-001</td>
<td>Co-operative Work Placement V</td>
<td>0.5</td>
<td>W1</td>
<td>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 310. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 412-201</td>
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<td>0.5</td>
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<td>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 310. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 460-002</td>
<td>No Knowledge is Neutral</td>
<td>0.5</td>
<td>W2</td>
<td>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. In Person Learning Arranged Arranged</td>
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<tr>
<td>ASTU_V 501-101</td>
<td>Co-operative Work Placement I</td>
<td>0.5</td>
<td>W1</td>
<td>Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 13 weeks 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</td>
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<td>ASTU_V 501-201</td>
<td>Co-operative Work Placement I</td>
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<tr>
<td>ASTU_V 502-101</td>
<td>Co-operative Work Placement II</td>
<td>0.5</td>
<td>W1</td>
<td>Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 13 weeks 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</td>
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<tr>
<td>ASTU_V 502-201</td>
<td>Co-operative Work Placement II</td>
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<td>W2</td>
<td>Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 13 weeks 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</td>
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<td>ASTU_V 503-001</td>
<td>Co-operative Work Placement II</td>
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<td>Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 13 weeks 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</td>
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<td>ASTU_V 503-101</td>
<td>Co-operative Work Placement III</td>
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<td>W1-2</td>
<td>Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 13 weeks 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</td>
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<tr>
<td>ASTU_V 503-201</td>
<td>Co-operative Work Placement III</td>
<td>0.5</td>
<td>W2</td>
<td>Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 13 weeks 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</td>
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<tr>
<td>ASTU 505-101</td>
<td>Interdisciplinary Research and Professional Practice in Migration Studies</td>
<td>W1-2</td>
<td>Workshop-based seminar in the Graduate Certificate in Migration Studies. Interdisciplinary engagement with migration and mobiles 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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ASTU 610-101</td>
<td>Co-operative Education Work Placement 1</td>
<td>W1</td>
<td>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. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ASTU 610-101</td>
<td>Co-operative Education Work Placement 1</td>
<td>W2</td>
<td>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. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>ASTU 611-101</td>
<td>Co-operative Education Work Placement 2</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ASTU 611-101</td>
<td>Co-operative Education Work Placement 2</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ASTU 612-101</td>
<td>Co-operative Education Work Placement 3</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ASTU 612-101</td>
<td>Co-operative Education Work Placement 3</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 113-101</td>
<td>Weather Science for Sailing, Flying, and Snow Sports</td>
<td>W1</td>
<td>Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. (3-0-0)</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 113-201</td>
<td>Weather Science for Sailing, Flying, and Snow Sports</td>
<td>W2</td>
<td>Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. (3-0-0)</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 113-99A</td>
<td>Weather Science for Sailing, Flying, and Snow Sports</td>
<td>W1</td>
<td>Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. (3-0-0)</td>
<td>Hybrid Learning</td>
</tr>
<tr>
<td>ATSC_V 113-99C</td>
<td>Weather Science for Sailing, Flying, and Snow Sports</td>
<td>W2</td>
<td>Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. (3-0-0)</td>
<td>Hybrid Learning</td>
</tr>
<tr>
<td>ATSC_V 201-101</td>
<td>Meteorology of Storms</td>
<td>W1</td>
<td>Characteristics and physical processes of thunderstorms, tornadoes, lightning, hail, hurricanes, tornadoes, clouds and other storms. Recommended pre-requisite: completion of first-year science. (3-0-0)</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 201-101</td>
<td>Atmospheric Radiation and Remote Sensing</td>
<td>W1</td>
<td>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 110, PHYS 116, and familiarity with a programming language.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 201-101</td>
<td>Atmospheric Radiation and Remote Sensing</td>
<td>W2</td>
<td>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 110, PHYS 116, and familiarity with a programming language.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 202-101</td>
<td>Methods in Atmospheric Science</td>
<td>W2</td>
<td>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, GEOG 203, GEOG 260.</td>
<td>In Person Learning</td>
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<tr>
<td>ATSC_V 202-12A</td>
<td>Methods in Atmospheric Science</td>
<td>W2</td>
<td>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, GEOG 203, GEOG 260.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 313-99A</td>
<td>Renewable Energy Meteorology</td>
<td>W1</td>
<td>The meteorology of hydro, wind, and solar power. Atmospheric processes affecting renewable energy on global, regional &amp; local weather scales. (3-0-0) Prerequisite: One of MATH 101, MATH 103, MATH 108, MATH 109, MATH 112 and one of PHYS 102, PHYS 108, PHYS 110, PHYS 116, PHYS 117, PHYS 118, PHYS 151 and one of EOSC 160, CPSC 103, CPSC 110, CPSC 130, EOSC 211.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ATSC_V 313-99C</td>
<td>Renewable Energy Meteorology</td>
<td>W2</td>
<td>The meteorology of hydro, wind, and solar power. Atmospheric processes affecting renewable energy on global, regional &amp; local weather scales. (3-0-0) Prerequisite: One of MATH 101, MATH 103, MATH 108, MATH 109, MATH 112 and one of PHYS 102, PHYS 108, PHYS 110, PHYS 116, PHYS 117, PHYS 118, PHYS 151 and one of EOSC 160, CPSC 103, CPSC 110, CPSC 130, EOSC 211.</td>
<td>Hybrid Learning</td>
</tr>
<tr>
<td>ATSC_V 388-101</td>
<td>Co-operative Work Placement 1</td>
<td>W1</td>
<td>Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 12 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 GEOG 260, GEOG 360.</td>
<td>In Person Learning</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ATSC 498-201</td>
<td>Co-operative Work Placement I</td>
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<td>In Person Learning</td>
<td>Arranged</td>
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<td>ATSC 498-101</td>
<td>Co-operative Work Placement II</td>
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<td>Arranged</td>
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<td>ATSC 498-201</td>
<td>Co-operative Work Placement III</td>
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<td>Arranged</td>
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<td>ATSC 498-301</td>
<td>Co-operative Work Placement IV</td>
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<td>0.5</td>
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<td>In Person Learning</td>
<td>W1-2</td>
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<td>In Person Learning</td>
<td>W1-2</td>
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<td>ATSC 498-C_001</td>
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<td>W1-2</td>
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<td>Course Code</td>
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<td>Description</td>
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<td>ATSC_V 595-D_101</td>
<td>Directed Studies</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<td>ATSC_V 595-D_201</td>
<td>Directed Studies</td>
<td>W2</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<td>ATSC_V 597-101</td>
<td>Co-operative Work Placement I</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>ATSC_V 598-101</td>
<td>Co-operative Work Placement II</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>ATSC_V 599-A_005</td>
<td>Master’s Thesis</td>
<td>W1-2</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<td>ATSC_V 599-A_101</td>
<td>Master’s Thesis</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
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<td>ATSC_V 599-A_201</td>
<td>Master’s Thesis</td>
<td>W2</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<td>ATSC_V 599-B_006</td>
<td>Master’s Thesis</td>
<td>W1-2</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>ATSC_V 699-001</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<td>ATSC_V 699-101</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>ATSC_V 699-201</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>AUDI_V 402-2W1</td>
<td>Neuroanatomy for Audiology and Speech-Language Pathology</td>
<td>W2</td>
<td>[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.</td>
<td>In Person Learning: Arranged</td>
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<td>AUDI_V 402-99C</td>
<td>Neuroanatomy for Audiology and Speech-Language Pathology</td>
<td>W2</td>
<td>[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.</td>
<td>Online Learning: Arranged</td>
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<td>AUDI_V 402-99D</td>
<td>Neuroanatomy for Audiology and Speech-Language Pathology</td>
<td>W2</td>
<td>[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.</td>
<td>In Person Learning: Arranged</td>
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<td>AUDI_V 402-99E</td>
<td>Neuroanatomy for Audiology and Speech-Language Pathology</td>
<td>W2</td>
<td>[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.</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>AUDI_V 402-99F</td>
<td>Neuroanatomy for Audiology and Speech-Language Pathology</td>
<td>W2</td>
<td>[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.</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>AUDI_V 513-A_001</td>
<td>Acoustic and Articulatory Phonetics</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>AUDI_V 514-A_001</td>
<td>Hearing Science I</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>AUDI_V 514-B_001</td>
<td>Hearing Science I</td>
<td>W1</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>AUDI_V 515-001</td>
<td>Hearing Science II</td>
<td>W2</td>
<td>Not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<tr>
<td>AUDI_V 516-A_002</td>
<td>Discourse Analysis</td>
<td>W2</td>
<td>May be taken more than once for credit: This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<td>AUDI_V 516-B_001</td>
<td>Discourse Analysis</td>
<td>W1-2</td>
<td>May be taken more than once for credit: This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning: Arranged</td>
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<td>AUDI_V 516-C_001</td>
<td>Discourse Analysis</td>
<td>W2</td>
<td>May be taken more than once for credit: This course is not eligible for Credit/D/Fail grading</td>
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<td>Course Code</td>
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<tr>
<td>AUDI_V 524-001</td>
<td>Disorders of Speech Production</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 526-001</td>
<td>Acquired Language Disorders</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 527-001</td>
<td>Introduction to Dysphagia</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 528-001</td>
<td>Aural Rehabilitation I</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>AUDI_V 529-001</td>
<td>Aural Rehabilitation II</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>AUDI_V 530-A_001</td>
<td>Research Methods</td>
<td>W1</td>
<td>May be taken more than once. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 530-B_001</td>
<td>Research Methods</td>
<td>W1</td>
<td>May be taken more than once. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 530-C_001</td>
<td>Research Methods</td>
<td>W1</td>
<td>May be taken more than once. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 540-001</td>
<td>Advanced Communication Sciences and Disorders</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 540-002</td>
<td>Advanced Communication Sciences and Disorders</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>AUDI_V 540-003</td>
<td>Advanced Communication Sciences and Disorders</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>AUDI_V 545-001</td>
<td>Preparation for Clinical Practice and Externships</td>
<td>W1-2</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>AUDI_V 546-A_001</td>
<td>Advanced Communication Sciences and Disorders</td>
<td>W2</td>
<td>May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 546-A_002</td>
<td>Advanced Communication Sciences and Disorders</td>
<td>W1-2</td>
<td>May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 546-A_003</td>
<td>Advanced Communication Sciences and Disorders</td>
<td>W1-3</td>
<td>May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 546-B_001</td>
<td>Advanced Communication Sciences and Disorders</td>
<td>W1</td>
<td>May be taken for credit more than once. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 547-001</td>
<td>Directed Reading in Audiology and Speech Sciences</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 547-C_001</td>
<td>Directed Reading in Audiology and Speech Sciences</td>
<td>W1</td>
<td>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.</td>
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<tr>
<td>AUDI_V 547-D_001</td>
<td>Directed Reading in Audiology and Speech Sciences</td>
<td>W1-2</td>
<td>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.</td>
<td>In Person Learning</td>
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<tr>
<td>AUDI_V 548-001</td>
<td>Research Paper</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>Course Code</td>
<td>Department</td>
<td>Course Title</td>
<td>Term</td>
<td>Notes</td>
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<tr>
<td>AUDI_V 548-002</td>
<td>AUDI_V</td>
<td>Research Paper</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>AUDI_V 548-003</td>
<td>AUDI_V</td>
<td>Research Paper</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>AUDI_V 548-001</td>
<td>AUDI_V</td>
<td>M.Sc. Thesis</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>AUDI_V 548-002</td>
<td>AUDI_V</td>
<td>M.Sc. Thesis</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>AUDI_V 548-003</td>
<td>AUDI_V</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>AUDI_V 550-A_001</td>
<td>AUDI_V</td>
<td>Advanced Topics in Audiology</td>
<td>W1</td>
<td>May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>AUDI_V 550-B_001</td>
<td>AUDI_V</td>
<td>Advanced Topics in Audiology</td>
<td>W1</td>
<td>May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>AUDI_V 550-D_001</td>
<td>AUDI_V</td>
<td>Advanced Topics in Audiology</td>
<td>W1</td>
<td>May be taken more than once for credit. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>AUDI_V 551-001</td>
<td>AUDI_V</td>
<td>Hearing and Noise</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>AUDI_V 552-001</td>
<td>AUDI_V</td>
<td>Diagnostic Audiology I</td>
<td>W2</td>
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<td>AUDI_V 553-001</td>
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<td>Diagnostic Audiology II</td>
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<td>AUDI_V 555-001</td>
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<td>Issues in Professional Practice</td>
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<td>AUDI_V 556-001</td>
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<td>AUDI_V 558-001</td>
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<td>Physiological Measurement of Auditory Function</td>
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<td>AUDI_V 559-001</td>
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<td>Practicum in Speech-Language Pathology for Audiology Majors</td>
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<td>AUDI_V 562-001</td>
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<td>Pediatric Audiology</td>
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<td>AUDI_V 562-001</td>
<td>AUDI_V</td>
<td>Cochlear Implants: Audiological Assessment and Management Issues</td>
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<td>AUDI_V 566-C_001</td>
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<td>Audiology Practicum II</td>
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<td>AUDI_V 567-C_001</td>
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<td>Audiology Practicum III</td>
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<td>AUDI_V 568-C_002</td>
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<td>Audiology Practicum IV</td>
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<td>AUDI_V 570-001</td>
<td>AUDI_V</td>
<td>Case Studies in Physiological Intervention and Aural (Re)habilitation</td>
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<td>AUDI_V 571-001</td>
<td>AUDI_V</td>
<td>Developmental Language Disorders</td>
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</table>
Cognitive Processing and Acquired Language Disorders

Language Development and Disorders in the School Years

Topics in Fluency Disorders

Advanced Studies in Acquired Speech and Swallowing Disorders

Practicum in Audiology for Speech-Language Pathology Majors

Speech Perception and Hearing Ability

Perceptual, Cognitive, and Social-affective Issues in Communication Development, Assessment and Intervention

Advanced Speech Science

Language Development Across the Lifespan

Acquired Language Disorders II

Speech-Language Pathology Practicum I

Speech-Language Pathology Practicum IV

Doctoral Dissertation

Doctoral Dissertation

Doctoral Dissertation

Seminar in Hearing Science

Seminar in Hearing Science

Seminar in Hearing Science

Seminar in Developmental Phonetics and Phonology

Seminar in Language Development

Seminar in Language Development

Seminar in Speech Science

NBA Core
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<td>Mon - Fri</td>
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<td>BA_V 501-300</td>
<td>Professional Residency I: Leadership and Competitive Strategy</td>
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<td>In Person</td>
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<td>BA_V 502-301</td>
<td>Professional Residency II: Business Development and Negotiations</td>
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<td>In Person</td>
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<td>BA_V 503-302</td>
<td>Professional Residency III: Ethics, Sustainability and Managing Change</td>
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<td>BA_V 505-001</td>
<td>Business Strategy Integration: Global</td>
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<td>BA_V 508-001</td>
<td>Business Strategy Integration: Capstone</td>
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<td>BA_V 509-BA1</td>
<td>Experiential Learning: Business Analytics Internship</td>
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<td>BA_V 511-001</td>
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- **Restrictions:**
  - Limited to a maximum of 12 credits in this course. This course is not eligible for Credit/D/Fail grading.
  - Limited to students in one of the following programs: M.B.A., J.D., M.M., Sc.B., Ph.D., with B.A./B.S. specialization, or M.A., with either ECMS or ECMJ. M.A., 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.
  - Limited to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.

- **Notes:**
  - Limited to students in the M.M. Program. This course is not eligible for Credit/D/Fail grading.
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Study Abroad and Exchange

GNAM: Global Network Course

In Person Learning

W1

This course is not eligible for Credit/D/Fail grading.

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In Person Learning

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<td>W1</td>
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<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Ethics and Sustainability</td>
<td>W1</td>
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<td>W1</td>
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<td>BA_V 561-001</td>
<td>Creativity</td>
<td>W2</td>
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<td>BA_V 561-002</td>
<td>Creativity</td>
<td>W2</td>
<td>Mon Tue Wed Thu Fri</td>
<td>1:00 p.m - 5:00 p.m</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 561-MM1</td>
<td>Creativity</td>
<td>W1</td>
<td>Tue Wed Thu Fri</td>
<td>9:00 a.m - 3:00 p.m</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 562-001</td>
<td>Decision Making for Managers</td>
<td>W1</td>
<td>Mon Wed</td>
<td>8:00 a.m - 10:00 a.m</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 562-002</td>
<td>Decision Making for Managers</td>
<td>W2</td>
<td>Mon Wed</td>
<td>10:00 a.m - 12:00 p.m</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 562-MM1</td>
<td>Decision Making for Managers</td>
<td>W1</td>
<td>Mon Wed</td>
<td>8:00 a.m - 10:00 a.m</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 563-001</td>
<td>Leadership Development</td>
<td>W2</td>
<td>Mon Wed</td>
<td>4:00 p.m - 6:00 p.m</td>
<td>In Person Learning</td>
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<td>BA_V 563-MM1</td>
<td>Leadership Development</td>
<td>W1</td>
<td>Mon Wed</td>
<td>4:00 p.m - 6:00 p.m</td>
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<td>Leadership Development</td>
<td>W2</td>
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<td>8:00 a.m - 10:00 a.m</td>
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<td>BA_V 564-MM1</td>
<td>Leadership Development</td>
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<td>BA_V 564-002</td>
<td>Leadership Development</td>
<td>W2</td>
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<td>4:00 p.m - 6:00 p.m</td>
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<td>BA_V 564-MM1</td>
<td>Leadership Development</td>
<td>W1</td>
<td>Mon Wed</td>
<td>4:00 p.m - 6:00 p.m</td>
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<tr>
<td>BA_V 565-001</td>
<td>Topics in Business Administration</td>
<td>W1</td>
<td>Mon Wed</td>
<td>8:00 a.m - 10:00 a.m</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>BA_V 565-MM1</td>
<td>Topics in Business Administration</td>
<td>W1</td>
<td>Mon Wed</td>
<td>8:00 a.m - 10:00 a.m</td>
<td>In Person Learning</td>
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<tr>
<td>BAAC_V 501-001</td>
<td>Financial Statement Analysis I</td>
<td>W1</td>
<td>Sun Sat</td>
<td>8:30 a.m - 4:00 p.m</td>
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<tr>
<td>BAAC_V 511-001</td>
<td>Intermediate Managerial Accounting: Decision Making and Performance Evaluation</td>
<td>W2</td>
<td>Mon Wed</td>
<td>8:00 a.m - 10:00 a.m</td>
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<td>BAAC_V 550-001</td>
<td>Foundations in Accounting</td>
<td>W1</td>
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<td>8:00 a.m. - 10:00 a.m.</td>
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| BABS_V 550 | Foundations in Accounting                       | W1         | In Person Learning | 3      | Mon Wed | 10:00 a.m. - 12:00 p.d.
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<th>Credits</th>
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<td>BABS_V 550-MM1</td>
<td>Application of Statistics in Management</td>
<td>W1</td>
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<td>Tue Thu</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<td>Application of Statistics in Management</td>
<td>W1</td>
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<td>Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>Application of Statistics in Management</td>
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<td>Application of Statistics in Management</td>
<td>W1</td>
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<tr>
<td>BAEN_V 502-001</td>
<td>Growing and Exiting a Venture</td>
<td>W1</td>
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<tr>
<td>BAEN_V 505-001</td>
<td>Entrepreneurial Finance</td>
<td>W2</td>
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<td>Mon</td>
<td>6:00 p.m. - 9:30 p.m.</td>
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<tr>
<td>BAEN_V 506-001</td>
<td>Technology Entrepreneurship</td>
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<td>BAEN_V 507-001</td>
<td>Disruption</td>
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<td>BAEN_V 508-001</td>
<td>Applied Methods in Technology Start-ups at CDL</td>
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<tr>
<td>BAEN_V 509-001</td>
<td>Innovation and Sustainability</td>
<td>W1</td>
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<td>W1</td>
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<td>Fundamentals in Entrepreneurship</td>
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<td>W2</td>
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<td>BAEN_V 514-001</td>
<td>Fundamentals in Entrepreneurship</td>
<td>W1</td>
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<td>Tue</td>
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<td>W2</td>
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<td>BAFI_V 500-MM1</td>
<td>Introductory Finance</td>
<td>In Person Learning</td>
<td>W1</td>
<td>3</td>
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<td>In Person Learning</td>
<td>W1</td>
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<td>BAFI_V 501-001</td>
<td>Banking and Capital Markets</td>
<td>In Person Learning</td>
<td>W2</td>
<td>3</td>
<td>Tue Thu 10:00 a.m. - 12:00 p.m.</td>
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<td>BAFI_V 502-001</td>
<td>Corporate Finance</td>
<td>In Person Learning</td>
<td>W2</td>
<td>3</td>
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<td>BAFI_V 502-301</td>
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<td>In Person Learning</td>
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<td>BAFI_V 503-001</td>
<td>Topics in Corporate Finance</td>
<td>In Person Learning</td>
<td>W2</td>
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<td>BAFI_V 507-MM1</td>
<td>Investment Theory and Asset Pricing</td>
<td>In Person Learning</td>
<td>W1</td>
<td>3</td>
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<td>In Person Learning</td>
<td>W2</td>
<td>3</td>
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<tr>
<td>BAFI_V 508-BA2</td>
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<td>3</td>
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<td>Investment Theory and Asset Pricing</td>
<td>In Person Learning</td>
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<td>In Person Learning</td>
<td>W1</td>
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<td>BAFI_V 513-MM1</td>
<td>Risk Management</td>
<td>In Person Learning</td>
<td>W1</td>
<td>3</td>
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<td>BAFI_V 513-MUC</td>
<td>Risk Management</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>W1</td>
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<td>BAFI_V 523-MM1</td>
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<td>BAFI_V 523-MUC</td>
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<td>BAFI_V 550-001</td>
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<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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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]

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. [3-0-1]

Leadership

Two-Party Negotiations

Managing Change

Organizational Behavior

Building High Performance Teams and Organizations
<table>
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<tr>
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<td>BAKR_V S80-A_001</td>
<td>BAHR_V Topics in Human Resources</td>
<td>W1</td>
<td>Mon, Tue, Wed, Thu, Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue Thu: 10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>BAKR_V S80-B_002</td>
<td>BAHR_V Topics in Human Resources</td>
<td>W1</td>
<td>Mon, Tue, Wed, Thu, Fri</td>
<td>8:30 a.m. - 9:30 p.m.</td>
<td>In Person Learning</td>
<td>Sat: 8:30 a.m. - 9:30 p.m.</td>
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<tr>
<td>BART_V S57-BA1</td>
<td>BART_V Data Management for Business Analytics</td>
<td>W1</td>
<td>Mon, Wed</td>
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<td>In Person Learning</td>
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<td>BART_V S57-BA2</td>
<td>BART_V Data Management for Business Analytics</td>
<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S57-AAA</td>
<td>BART_V Data Management for Business Analytics</td>
<td>W1</td>
<td>Mon, Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<td>BART_V Business Analytics Programming</td>
<td>W1</td>
<td>Mon, Wed</td>
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<td>W1</td>
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<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S50-MM</td>
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<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S50-BA3</td>
<td>BART_V Business Applications of Machine Learning</td>
<td>W1</td>
<td>Mon, Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon: 10:00 a.m. - 12:00 p.m.</td>
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<td>BART_V S50-BAA</td>
<td>BART_V Business Applications of Machine Learning</td>
<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V Business Applications of Machine Learning</td>
<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S10-MB5</td>
<td>BART_V Project Management in Delivering Business Solutions</td>
<td>W1</td>
<td>Mon, Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>BART_V S55-DDS</td>
<td>BART_V AI Commercialization</td>
<td>W1</td>
<td>Mon, Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S58-DD1</td>
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<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S58-DD2</td>
<td>BART_V Data Visualization</td>
<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S58-DD3</td>
<td>BART_V Data Visualization</td>
<td>W1</td>
<td>Mon, Wed</td>
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<td>BART_V S80-A BA1</td>
<td>BART_V Topics in Information Technology Management</td>
<td>W2</td>
<td>Mon, Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>W2</td>
<td>Mon, Wed</td>
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<td>BALA_V S33-DD1</td>
<td>BALA_V Commercial Law</td>
<td>W1</td>
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The course is not eligible for Credit/D/Fail grading.
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<td>503-001</td>
<td>BA2</td>
<td>New Product Development</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<td>503-MUC</td>
<td>BA2</td>
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<tr>
<td>506-001</td>
<td>BA2</td>
<td>Integrated Marketing Communication</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<td>BA2</td>
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<td>506-001</td>
<td>BA2</td>
<td>Consumer Behaviour</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<td>506-MUC</td>
<td>BA2</td>
<td>Consumer Behaviour</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>513-001</td>
<td>BA2</td>
<td>Digital Marketing</td>
<td>Mon Wed</td>
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<td>514-001</td>
<td>BA2</td>
<td>Broad Management</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>514-001</td>
<td>BA2</td>
<td>Broad Management</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<td>514-MUC</td>
<td>BA2</td>
<td>Broad Management</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>514-MUC</td>
<td>BA2</td>
<td>Broad Management</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>517-8A1</td>
<td>BA2</td>
<td>Data Driven Marketing</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>517-8A1</td>
<td>BA2</td>
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<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<td>Fri</td>
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<td>517-MUC</td>
<td>BA2</td>
<td>Data Driven Marketing</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>517-MUC</td>
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<td>Mon Wed</td>
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<td>Fri</td>
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<tr>
<td>519-101</td>
<td>BA2</td>
<td>Building Brands with Purpose</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>519-MUC</td>
<td>BA2</td>
<td>Building Brands with Purpose</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>520-001</td>
<td>BA2</td>
<td>Customer Analytics</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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**Notes:**
- Some courses are not eligible for Credit/D/Fail grading.
- Specific restrictions apply for certain programs.

**Related Course Notes:**
- 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.
- This course is not eligible for Credit/D/Fail grading.
- 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.
- This course is not eligible for Credit/D/Fail grading.
| 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 Mon Wed | 10:00 a.m. - 12:00 p.m. |
| BAMA_V 520-001 | BAMA_V 520 | 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 520-002 | BAMA_V 520 | 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 520-301 | BAMA_V 520 | 301 | Marketing | W1 | This course is not eligible for Credit/D/Fail grading. In Person Learning Sat | 8:30 a.m. - 10:00 a.m. |
| BAMA_V 520-B24 | BAMA_V 520 | B24 | Marketing | 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-MM1 | BAMA_V 520 | 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 520-MUC | BAMA_V 520 | MUC | Marketing | W1 | This course is not eligible for Credit/D/Fail grading. In Person Learning Fri | 6:00 p.m. - 8:00 p.m. |
| BAMA_V 508-A_BA1 | BAMA_V 508 | A_BA1 | Topics in Marketing | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Tues Wed Thu Fri | 8:00 a.m. - 10:00 a.m. |
| BAMA_V 506-SMB | BAMA_V 506 | SMB | Simulation Modelling | 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 506-BA1 | BAMA_V 506 | BA1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-BA2 | BAMA_V 506 | BA2 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-BA3 | BAMA_V 506 | BA3 | Optimal Decision Making I | W1 | 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 | 10:00 a.m. - 12:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-B_001 | BAMA_V 506 | B_001 | Optimal Decision Making I | W1 | 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 Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |
| BAMA_V 506-MM1 | BAMA_V 506 | MM1 | Simulation Modelling | W2 | This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Thu Fri | 2:00 p.m. - 4:00 p.m. |

Models and methods in discrete optimization; emphasis on useful modeling 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.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Schedule</th>
<th>Location</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAMS_V 517-001</td>
<td>Decision Analysis Under Uncertainty</td>
<td>M1</td>
<td>In Person Learning</td>
<td>Not Eligible</td>
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<tr>
<td>BAMS_V 517-002</td>
<td>Decision Analysis Under Uncertainty</td>
<td>M1</td>
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<tr>
<td>BAMS_V 517-003</td>
<td>Decision Analysis Under Uncertainty</td>
<td>M1</td>
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<td>BAMS_V 517-004</td>
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<td>M1</td>
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<tr>
<td>BAMS_V 517-005</td>
<td>Decision Analysis Under Uncertainty</td>
<td>M1</td>
<td>In Person Learning</td>
<td>Not Eligible</td>
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<tr>
<td>BAMS_V 517-006</td>
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<td>M1</td>
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<td>Not Eligible</td>
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<tr>
<td>BAMS_V 517-007</td>
<td>Decision Analysis Under Uncertainty</td>
<td>M1</td>
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<tr>
<td>BAMS_V 517-008</td>
<td>Decision Analysis Under Uncertainty</td>
<td>M1</td>
<td>In Person Learning</td>
<td>Not Eligible</td>
</tr>
<tr>
<td>BAMS_V 517-009</td>
<td>Decision Analysis Under Uncertainty</td>
<td>M1</td>
<td>In Person Learning</td>
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<tr>
<td>BAMS_V 517-010</td>
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<td>M1</td>
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<tr>
<td>BAMS_V 517-011</td>
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<td>M1</td>
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<tr>
<td>BAMS_V 517-012</td>
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<td>M1</td>
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<tr>
<td>BAMS_V 517-013</td>
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<td>M1</td>
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<tr>
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<td>BAMS_V 517-017</td>
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<td>BAMS_V 517-018</td>
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<td>BAMS_V 517-019</td>
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<tr>
<td>BAMS_V 517-021</td>
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<tr>
<td>BAMS_V 517-022</td>
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<tr>
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<tr>
<td>BAMS_V 517-026</td>
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<tr>
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<tr>
<td>BAMS_V 517-029</td>
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<tr>
<td>BAMS_V 517-030</td>
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<tr>
<td>BAMS_V 517-031</td>
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<tr>
<td>BAMS_V 517-032</td>
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<tr>
<td>BAMS_V 517-033</td>
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<tr>
<td>BAMS_V 517-034</td>
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<tr>
<td>BAMS_V 517-035</td>
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<tr>
<td>BAMS_V 517-036</td>
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<td>BAMS_V 517-037</td>
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<tr>
<td>BAMS_V 517-038</td>
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<td>BAMS_V 517-039</td>
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<td>BAMS_V 517-040</td>
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</table>

Courses are not eligible for Credit/D/Fail grading.
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  
**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  
**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  
**Supply Chain Analytics**  
W1  
This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

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  
**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  
**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  
**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  
**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  
**Operations**  
W2  
This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

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 502-001  
**Corporate Strategy**  
W1  
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 510-001  
**Consulting Simulation**  
W1  
This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Fri  
5:30 p.m. - 9:30 p.m.

BASM_V 514-001  
**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. - 12:00 p.m.

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 518-MUC  
**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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>W1</th>
<th>W2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASM_V 523</td>
<td>Management Consulting and Corporate Decision Support</td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>BASM_V 550</td>
<td>Strategic Management</td>
<td>Not available to MBA students. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BASM_V 568-001</td>
<td>Real Estate Markets</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>BASM_V 568-001</td>
<td>Real Estate Investment Analysis</td>
<td>In Person Learning</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>BEST_V 200-101</td>
<td>Foundations in Bioproducts and the Bioeconomy</td>
<td>In Person Learning</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>BEST_V 201-101</td>
<td>Plants, Carbon, and Environment</td>
<td>In Person Learning</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>BEST_V 202-201</td>
<td>Alternative Energy Systems</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>BEST_V 202-201</td>
<td>Ecology of Managed Ecosystems</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>BEST_V 202-201</td>
<td>Ecology of Managed Ecosystems</td>
<td>In Person Learning</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>BEST_V 203-101</td>
<td>Biobased Polymers and Bioproducts</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>BEST_V 203-101</td>
<td>Biobased Polymers and Bioproducts</td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>BEST_V 301-101</td>
<td>Bioenergy</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>BEST_V 302-101</td>
<td>Laboratory in Bioeconomy Technology [I]</td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>BEST_V 302-101</td>
<td>Laboratory in Bioeconomy Technology [I]</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>BEST_V 302-102</td>
<td>Laboratory in Bioeconomy Technology [I]</td>
<td>In Person Learning</td>
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<tr>
<td>BEST_V 302-102</td>
<td>Laboratory in Bioeconomy Technology [I]</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>BEST_V 303-102</td>
<td>Laboratory in Bioeconomy Technology [I]</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>BEST_V 303-201</td>
<td>Applied Biotechnology for Bioproducts</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>BEST_V 304-201</td>
<td>Laboratory in Bioeconomy Technology [II]</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>BEST_V 304-201</td>
<td>Laboratory in Bioeconomy Technology [II]</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>BEST_V 304-201</td>
<td>Laboratory in Bioeconomy Technology [II]</td>
<td>In Person Learning</td>
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<tr>
<td>BEST_V 304-201</td>
<td>Laboratory in Bioeconomy Technology [II]</td>
<td>In Person Learning</td>
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<tr>
<td>BEST_V 305-101</td>
<td>Land Use Management and Planning</td>
<td>Global overview of land use management and planning, with a focus on principles and practice.</td>
<td>In Person Learning</td>
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<tr>
<td>BEST_V 308-01A</td>
<td>Land Use Management and Planning</td>
<td>Global overview of land use management and planning, with a focus on principles and practice.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BEST_V 308-01A</td>
<td>Land Use Management and Planning</td>
<td>Global overview of land use management and planning, with a focus on principles and practice.</td>
<td>In Person Learning</td>
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<tr>
<td>BEST_V 310-101</td>
<td>Co-operative Work Placement I</td>
<td>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.</td>
<td>In Person Learning</td>
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<tr>
<td>BEST_V 310-201</td>
<td>Co-operative Work Placement I</td>
<td>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.</td>
<td>In Person Learning</td>
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</table>
Biotechnology and Biocomposites

Introduction to principles of self-assembling 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.

Biological and Biocomposites

Function and metabolism of carbohydrates including glycogen storage and gluconeogenesis. Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function and metabolism of carbohydrates including glucose storage and gluconeogenesis. Restriction to students in biotechnology specialization. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOL 201. [3-0-0] Prerequisite: One of CHEM 100, CHIM 121, CHIM 131. 

In Person Learning  
Mon Wed Fri  
1:30 p.m. - 2:30 p.m.

Biological and Biocomposites

Introduction to principles of synthetic biology, Design-Build-Test-Learn (DBTL) cycle for bioproduction development, enzyme engineering, strain engineering for bioproduction, ethical framework, and social implications. [3-0-0] Prerequisite: BEST 300. 

In Person Learning  
Mon Wed Fri  
12:00 p.m. - 2:00 p.m.

Climate Change and Energy Economics

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. [3-0-0] Prerequisite: BEST 301. 

In Person Learning  
Wed  
1:30 p.m. - 3:30 p.m.

Climate Change and Energy Economics

Principles of synthetic biology, Design-Build-Test-Learn cycle for bioproduction development, enzyme engineering, strain engineering for bioproduction. [3-0-0] Prerequisite: BEST 300. 

In Person Learning  
Mon Wed Fri  
2:00 p.m. - 3:00 p.m.

Climate Change and Energy Economics

Introduction to principles of synthetic biology, Design-Build-Test-Learn cycle for bioproduction development, enzyme engineering, strain engineering for bioproduction, ethical framework, and social implications. [3-0-0] Prerequisite: BEST 301. 

In Person Learning  
Mon Wed Fri  
2:00 p.m. - 3:00 p.m.


course emphasis is on human biochemistry and it is designed for students going into health science.


course emphasis is on human biochemistry and it is designed for students going into health science.


course emphasis is on human biochemistry and it is designed for students going into health science.


course emphasis is on human biochemistry and it is designed for students going into health science.


course emphasis is on human biochemistry and it is designed for students going into health science.


course emphasis is on human biochemistry and it is designed for students going into health science.
BIOC_V 203-703  BIOC_V 203  T03  T03 Fundamentals of Biochemistry  
W2  
In Person Learning  
Tue  
9:30 a.m. - 10:30 a.m.

BIOC_V 203-704  BIOC_V 203  T04  T04 Fundamentals of Biochemistry  
W2  
In Person Learning  
Tue  
10:30 a.m. - 11:30 a.m.

BIOC_V 203-705  BIOC_V 203  T05  T05 Fundamentals of Biochemistry  
W2  
In Person Learning  
Tue  
11:30 a.m. - 12:30 p.m.

BIOC_V 203-706  BIOC_V 203  T06  T06 Fundamentals of Biochemistry  
W2  
In Person Learning  
Wed  
2:00 p.m. - 3:30 p.m.

BIOC_V 301-001  BIOC_V 301  T01  T01 Biochemistry Laboratory  
W1-2  
In Person Learning  
Fri  
9:30 a.m. - 10:30 a.m.

BIOC_V 301-DNU_001  BIOC_V 301  T01  T01 Biochemistry Laboratory  
W1-2  
In Person Learning  
Arranged  
Arranged

BIOC_V 301-002  BIOC_V 301  T02  T02 Biochemistry Laboratory  
W1-2  
In Person Learning  
Wed  
2:00 p.m. - 3:00 p.m.

BIOC_V 301-003  BIOC_V 301  T03  T03 Biochemistry Laboratory  
W1-2  
In Person Learning  
Mon  
9:00 a.m. - 10:00 a.m.

BIOC_V 302-102  BIOC_V 302  T02  T02 General Biochemistry  
WL-1  
In Person Learning  
Mon  
11:00 a.m. - 12:30 p.m.

BIOC_V 302-202  BIOC_V 302  T02  T02 General Biochemistry  
WL-2  
In Person Learning  
Mon  
12:00 p.m. - 1:00 p.m.

BIOC_V 302-203  BIOC_V 302  T03  T03 General Biochemistry  
WL-2  
In Person Learning  
Mon  
1:30 p.m. - 2:00 p.m.

BIOC_V 302-204  BIOC_V 302  T04  T04 General Biochemistry  
WL-2  
In Person Learning  
Mon  
2:30 p.m. - 3:30 p.m.

BIOC_V 302-001  BIOC_V 302  T01  T01 Molecular Biochemistry  
WL-1  
In Person Learning  
Wed  
1:00 p.m. - 2:00 p.m.

BIOC_V 302-DNU_001  BIOC_V 302  T01  T01 Molecular Biochemistry  
WL-2  
In Person Learning  
Arranged  
Arranged

BIOC_V 304  BIOC_V 304  T01  T01 Contemporary Biochemical Research  
WL-2  
In Person Learning  
Arranged  
Arranged

Methods used to address pressing and ongoing biochemical issues. [3-0-0] Prerequisite: CHEM 213.

Medicine and biotechnology. Detailed experimental research case studies of novel biochemical

Techniques by which the chemical and physical properties of fundamental components of the cell are studied. [3-0-1] Corequisite: One of BIOC 302, BIOC 303.

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BIOC 404-001  
In Person Learning  
Quantitative Methods in Biochemistry  
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] Prerequisite: One of BIOC 302 or BIOL 301 with a grade of 70% or higher and a corequisite of BIOC 202. In Person Learning  

BIOC 398-610  
In Person Learning  
Intermediate Work Placement I  
Approved and supervised technical work experience in an industrial or academic laboratory for three to 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  

BIOC 398-615  
In Person Learning  
Intermediate Work Placement I  
Approved and supervised technical work experience in an industrial or academic laboratory for three to 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  

BIOC 402-101  
In Person Learning  
Proteins: Structure and Function  
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 by 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  

BIOC 402-102  
In Person Learning  
Proteins: Structure and Function  
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 by 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  

BIOC 403-101  
In Person Learning  
Nucleic Acids: Structure and Function  
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 303, BIOC 305, BIOC 403 or (610) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person Learning  

BIOC 403-102  
In Person Learning  
Nucleic Acids: Structure and Function  
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 303, BIOC 305, BIOC 403 or (610) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person Learning  

BIOC 420-101  
In Person Learning  
Advanced Biocatalytic Techniques  
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 major or honours with permission of the instructor. [3-0-0] Prerequisite: One of BIOC 404, BIOT 457. In Person Learning  

BIOC 420-102  
In Person Learning  
Advanced Biocatalytic Techniques  
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 major or honours with permission of the instructor. [3-0-0] Prerequisite: One of BIOC 404, BIOT 457. In Person Learning  

BIOC 420-103  
In Person Learning  
Advanced Biocatalytic Techniques  
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 major or honours with permission of the instructor. [3-0-0] Prerequisite: One of BIOC 404, BIOT 457. In Person Learning  

BIOC 421-201  
In Person Learning  
Recombinant DNA Techniques  
Multi-week experiments involving contemporary nuclear and molecular 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. [3-0-0] Prerequisite: One of BIOC 303, BIOT 410. In Person Learning  

BIOC 421-202  
In Person Learning  
Recombinant DNA Techniques  
Multi-week experiments involving contemporary nuclear and molecular 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. [3-0-0] Prerequisite: One of BIOC 303, BIOT 410. In Person Learning  

BIOC 404-001  
In Person Learning  
Biochemical Methods  
Theory and application of classical and emerging technologies in biochemical research. Emphasis on primary literature and critical presentation skills. Restricted to Honours students in Biochemistry or others with permission of the instructor. [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  

BIOC 404-002  
In Person Learning  
Biochemical Methods  
Theory and application of classical and emerging technologies in biochemical research. Emphasis on primary literature and critical presentation skills. Restricted to Honours students in Biochemistry or others with permission of the instructor. [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  

BIOC 403-101  
In Person Learning  
Nucleic Acids: Structure and Function  
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 303, BIOC 403 or (610) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person Learning  

BIOC 403-102  
In Person Learning  
Nucleic Acids: Structure and Function  
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 303, BIOC 403 or (610) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person Learning  

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Advanced Biocatalytic Techniques  
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 major or honours with permission of the instructor. [3-0-0] Prerequisite: One of BIOC 404, BIOT 457. In Person Learning  

BIOC 420-102  
In Person Learning  
Advanced Biocatalytic Techniques  
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 major or honours with permission of the instructor. [3-0-0] Prerequisite: One of BIOC 404, BIOT 457. In Person Learning  

BIOC 420-103  
In Person Learning  
Advanced Biocatalytic Techniques  
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 major or honours with permission of the instructor. [3-0-0] Prerequisite: One of BIOC 404, BIOT 457. In Person Learning  

BIOC 421-201  
In Person Learning  
Recombinant DNA Techniques  
Multi-week experiments involving contemporary nuclear and molecular 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. [3-0-0] Prerequisite: One of BIOC 303, BIOT 410. In Person Learning  

BIOC 421-202  
In Person Learning  
Recombinant DNA Techniques  
Multi-week experiments involving contemporary nuclear and molecular 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. [3-0-0] Prerequisite: One of BIOC 303, BIOT 410. In Person Learning
Advanced Topics in Protein Biochemistry
Mon Wed Fri
8:30 a.m. - 12:30 p.m.
W1-2
448
In Person Learning

Concepts in Molecular Biology
W2
466
001
In Person Learning

Directed Studies in Biochemistry
W1-2
468 A A_101
In Person Learning

Directed Studies in Biochemistry
W2
468 A A_201
In Person Learning

Directed Studies in Biochemistry
W1-2
468 B R_001
In Person Learning

Advanced Techniques in Biochemistry
W2
460-C_001
In Person Learning

Internship Work Placement IV
A_201
11:00 a.m. - 12:30 p.m.

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Seminar in Biochemistry
Mon Wed Fri
A
610
Honours Thesis

Advanced Biochemistry Laboratory
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Seminar in Biochemistry
Mon Wed Fri
A
610
Honours Thesis

Advanced Biochemistry Laboratory
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Seminar in Biochemistry
Mon Wed Fri
A
610
Honours Thesis

Advanced Biochemistry Laboratory
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Seminar in Biochemistry
Mon Wed Fri
A
610
Honours Thesis

Advanced Biochemistry Laboratory
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Seminar in Biochemistry
Mon Wed Fri
A
610
Honours Thesis

Advanced Biochemistry Laboratory
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning

Seminar in Biochemistry
Mon Wed Fri
A
610
Honours Thesis

Advanced Biochemistry Laboratory
In Person Learning

Internship Work Placement III
Fri
450
448
Directed Studies in Biochemistry
In Person Learning
<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
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<th>Location</th>
<th>Notes</th>
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<td>BIOC_V 549-001</td>
<td>BIOC_V 549 001 M.S. Thesis</td>
<td>W1-2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>BIOC_V 549 101 M.S. Thesis</td>
<td>W1</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>BIOC_V 549-201</td>
<td>BIOC_V 549 201 M.S. Thesis</td>
<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>BIOC_V 551-001</td>
<td>BIOC_V 551 001 Advanced Topics in Biochemistry and Molecular Biology</td>
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<td>Discussions based on topics in the current literature. This course</td>
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<td>BIOC_V 554-001</td>
<td>BIOC_V 554 001 Biochemical Aspects of Cellular Regulation</td>
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<td>BIOC_V 557-001</td>
<td>BIOC_V 557 001 Advanced Topics in Biochemistry</td>
<td>W1</td>
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<td>Advancements in biochemical approaches. Topics vary. This course</td>
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<td>BIOC_V 558-001</td>
<td>BIOC_V 558 001 Advanced Topics in Protein Chemistry I</td>
<td>W1</td>
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<td>Contemporary theoretical and experimental investigation of</td>
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<td>BIOC_V 559-001</td>
<td>BIOC_V 559 001 Advanced Topics in Protein Chemistry II</td>
<td>W1</td>
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<td>contemporary theoretical and experimental investigation of</td>
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<td>BIOC_V 560-B_001</td>
<td>BIOC_V 560 B_001 Computational Approaches in Biochemistry</td>
<td>W2</td>
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<td>Computational approaches to study protein and nucleic acids. This</td>
<td>In Person Learning Arranged Arranged</td>
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<td>BIOC_V 649-001</td>
<td>BIOC_V 649 001 Doctoral Dissertation</td>
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<td>W2</td>
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<td>BIOSF_V 501-A_001</td>
<td>BIOSF_V 501 A_001 Special Topics in Bioinformatics</td>
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<td>BIOSF_V 520-002</td>
<td>BIOSF_V 520 002 Problem-Based Learning in Bioinformatics</td>
<td>W2</td>
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</tbody>
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This course is not eligible for Credit/D/Fail grading.
BIOL 111. 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]

BIOL 111. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

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BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

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BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.

BIOL 112. 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, BIOC 101, BIOC 103, BIOE 101.
Mon
10:00 a.m. - 11:00 a.m.
In Person Learning

Thu
2:00 p.m. - 3:00 p.m.
In Person Learning

Wed
5:00 p.m. - 6:00 p.m.
In Person Learning

Wed
9:00 a.m. - 10:00 a.m.
In Person Learning

Wed
11:00 a.m. - 12:00 p.m.
In Person Learning

Wed
1:00 p.m. - 2:00 p.m.
In Person Learning

Mon
T13
9:00 a.m. - 10:00 a.m.

Thu
T11
10:00 a.m. - 11:00 a.m.

Mon
T16
11:00 a.m. - 12:00 p.m.

Thu
T12
1:00 p.m. - 2:00 p.m.

Fri
W1
5:00 p.m. - 6:00 p.m.

Fri
T21
6:00 p.m. - 7:00 p.m.

Tue
W1
6:30 p.m. - 7:30 p.m.

Tue
T24
10:00 a.m. - 11:00 a.m.

Fri
W1
11:00 a.m. - 12:00 p.m.

Thu
T20
12:00 p.m. - 1:00 p.m.

Thu
T19
1:00 p.m. - 2:00 p.m.

Wed
T23
2:00 p.m. - 3:00 p.m.

Wed
T22
3:00 p.m. - 4:00 p.m.

Wed
T18
4:00 p.m. - 5:00 p.m.

Wed
T17
5:00 p.m. - 6:00 p.m.

Wed
T16
6:00 p.m. - 7:00 p.m.

Wed
T15
7:00 p.m. - 8:00 p.m.

Wed
T14
8:00 p.m. - 9:00 p.m.

Wed
T13
9:00 p.m. - 10:00 p.m.

Wed
T12
10:00 p.m. - 11:00 p.m.

Wed
T11
11:00 p.m. - 12:00 a.m.

Wed
T10
12:00 a.m. - 1:00 a.m.

Wed
T09
1:00 a.m. - 2:00 a.m.

Wed
T08
2:00 a.m. - 3:00 a.m.

Wed
T07
3:00 a.m. - 4:00 a.m.

Wed
T06
4:00 a.m. - 5:00 a.m.

Wed
T05
5:00 a.m. - 6:00 a.m.

Wed
T04
6:00 a.m. - 7:00 a.m.

Wed
T03
7:00 a.m. - 8:00 a.m.

Wed
T02
8:00 a.m. - 9:00 a.m.

Wed
T01
9:00 a.m. - 10:00 a.m.

Wed
T00
10:00 a.m. - 11:00 a.m.

Wed
T17
11:00 a.m. - 12:00 p.m.

Wed
T16
12:00 p.m. - 1:00 p.m.

Wed
T15
1:00 p.m. - 2:00 p.m.

Wed
T14
2:00 p.m. - 3:00 p.m.

Wed
T13
3:00 p.m. - 4:00 p.m.

Wed
T12
4:00 p.m. - 5:00 p.m.

Wed
T11
5:00 p.m. - 6:00 p.m.

Wed
T10
6:00 p.m. - 7:00 p.m.

Wed
T09
7:00 p.m. - 8:00 p.m.

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8:00 p.m. - 9:00 p.m.

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T06
10:00 p.m. - 11:00 p.m.

Wed
T05
11:00 p.m. - 12:00 a.m.

Wed
T04
12:00 a.m. - 1:00 a.m.

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T03
1:00 a.m. - 2:00 a.m.

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T02
2:00 a.m. - 3:00 a.m.

Wed
T01
3:00 a.m. - 4:00 a.m.

Wed
T00
4:00 a.m. - 5:00 a.m.

Wed
T17
5:00 a.m. - 6:00 a.m.

Wed
T16
6:00 a.m. - 7:00 a.m.

Wed
T15
7:00 a.m. - 8:00 a.m.

Wed
T14
8:00 a.m. - 9:00 a.m.

Wed
T13
9:00 a.m. - 10:00 a.m.

Wed
T12
10:00 a.m. - 11:00 a.m.

Wed
T11
11:00 a.m. - 12:00 p.m.

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12:00 p.m. - 1:00 p.m.

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1:00 p.m. - 2:00 p.m.

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T08
2:00 p.m. - 3:00 p.m.

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3:00 p.m. - 4:00 p.m.

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4:00 p.m. - 5:00 p.m.

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5:00 p.m. - 6:00 p.m.

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T04
6:00 p.m. - 7:00 p.m.

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T03
7:00 p.m. - 8:00 p.m.

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T02
8:00 p.m. - 9:00 p.m.

Wed
T01
9:00 p.m. - 10:00 p.m.

Wed
T00
10:00 p.m. - 11:00 p.m.
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<td>Mon Wed Fri</td>
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Prerequisites: One of BIOL 11, BIOL 12, BIOL 111. 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]
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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0; 3-0-0] Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, BIOL 111 and one of BIS 11, BIS 12, BIS 111.

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**BIOL 155-715**

**BIOL 155-716**

**BIOL 155-717**

**BIOL 155-718**

**BIOL 155-719**

**BIOL 155-720**

**BIOL 180-001**

**BIOL 180-101**

**BIOL 180-102**

**BIOL 180-109**

**BIOL 180-110**

**BIOL 180-111**

**BIOL 180-112**

**BIOL 180-113**

**BIOL 180-114**

**BIOL 180-115**

**BIOL 180-116**

**BIOL 180-117**

**BIOL 180-118**

**Human Biology: Physiology and Introductory Anatomy**

**In Person Learning**

**Thu 180 12:00 p.m. - 1:00 p.m.**

**T15**

**Thinking Like a Life Scientist**

**9:30 a.m. - 12:30 p.m.**

**T16**

**Human Biology: Physiology and Introductory Anatomy**

**In Person Learning**

**Thu 180 12:00 p.m. - 1:00 p.m.**

**T17**

**Human Biology: Physiology and Introductory Anatomy**

**In Person Learning**

**Thu 180 12:00 p.m. - 1:00 p.m.**

**T18**

**Human Biology: Physiology and Introductory Anatomy**

**In Person Learning**

**Thu 180 12:00 p.m. - 1:00 p.m.**

**W1**

**Thinking Like a Life Scientist**

**W1-2**

**Thinking Like a Life Scientist**

**W2**

**Thinking Like a Life Scientist**
Structure and function of plant and animal cells; membrane models, cytoplasmic organelles, biological information from gene to protein, the endomembrane system, secretion, intracellular digestion, endocytosis, transport processes, cytoskeleton and cell motility. [3-0-1] Prerequisite: Either (a) BIO 102 and one of CHEM 123, CHEM 150, or (b) SCI 005, or (c) 8 transfer credits of first-year BIO 1 and 6 credits of first-year CHEM or (d) one of BIO 112 or BIO 121 and a corequisite of one of CHEM 203 or CHEM 223.

Fundamentals of Cell Biology

In Person Learning

Mon

W1

11:00 a.m. - 12:00 p.m.

In Person Learning

Mon

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In Person Learning

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Structure and function of plant and animal cells; membrane models, cytoskeletal organelles, biological information from gene to protein, the endomembrane system, secretion, intracellular digestion, endocytosis, transport processes, cytoskeleton and cell motility. [3-0-1] Prerequisite: Either (a) BIOL 112 and one of CHEM 123, CHEM 130, or (b) SCI 001, or (c) 8 transfer credits of first-year BIOS and 4 credits of first-year CHEM or (d) one of BIOS 112 or BIOS 121 and a corequisite of CHEM 203 or CHEM 223. In Person Learning Tue 1:00 p.m. - 2:00 p.m.

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<td>7:00 p.m. - 8:00 p.m.</td>
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<td>In Person Learning</td>
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Structure and function of plant and animal cells; membrane models, cytoplasmic organelles, biological information from gene to protein, the endomembrane system, secretion, intracellular digestion, endocytosis, transport processes, cytoskeleton and cell motility. [0-0-2] Prerequisite: Either (a) BIOL 112 and one of CHEM 123, CHEM 130, or (b) SCIE 001, or (c) 8 transfer credits of first-year BIOS and 4 credits of first-year CHEM or (d) one of BIOS 112 or BIOS 121 and a corequisite of one of CHEM 203 or CHEM 223.

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In Person Learning
Mon 1:00 p.m. - 2:00 p.m.

Structure and function of plant and animal cells; membrane models, cytoskeletal organelles, biological information from gene to protein, the endomembrane system, secretion, intracellular digestion, endocytosis, transport processes, cytoskeleton and cell motility. [3-0-1] Prerequisite: Either (a) BIOL 112 and one of CHEM 233, CHEM 260, or (b) SCIE 001, or (c) 8 transfer credits of first-year BIOL and 6 credits of first-year CHEM or (d) one of BIOL 112 or BIOL 121 and a corequisite of one of CHEM 203 or CHEM 223.

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In Person Learning
Mon 1:00 p.m. - 2:00 p.m.

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 (b) SCIE 001, or (c) 8 transfer credits of first-year BIOL and 6 credits of first-year CHEM or (d) one of BIOL 112 or BIOL 121 and a corequisite of one of CHEM 203 or CHEM 223.

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In Person Learning
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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 BIOI 201, BIOI 202, or BIOI 203. Prerequisite: BIOI 200 and one of CHEM 233, CHEM 260, or BIOI 200 and a corequisite of CHEM 210, or a corequisite of either CHEM 313 or CHEM 330. [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.

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 BIOI 201, BIOI 202, or BIOI 203. Prerequisite: BIOI 200 and one of CHEM 233, CHEM 260, or BIOI 200 and a corequisite of CHEM 210, or a corequisite of either CHEM 313 or CHEM 330. [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.

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<tr>
<td>BIOL 204-L13</td>
<td>3-3-0</td>
<td>Vertebrate Structure and Function</td>
<td>Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms.</td>
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<td>BIOL 204-L11</td>
<td>3-3-0</td>
<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<tr>
<td>BIOL 204-L12</td>
<td>3-3-0</td>
<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<td>BIOL 204-L10</td>
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<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<tr>
<td>BIOL 204-L09</td>
<td>3-3-0</td>
<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<tr>
<td>BIOL 204-L08</td>
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<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<td>BIOL 204-L07</td>
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<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<td>BIOL 204-L06</td>
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<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<td>BIOL 204-L05</td>
<td>3-3-0</td>
<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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<tr>
<td>BIOL 204-L04</td>
<td>3-3-0</td>
<td>Comparative Invertebrate Zoology</td>
<td>An introduction to the origin and diversity of invertebrates, with a focus on the diversity of protists (protozoa and algae) at both cellular and molecular levels.</td>
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**Prerequisites:**
- One of BIOL 121, SCIE 001.
- Or 8 transfer credits of first-year biology.
BIOL-V 230-L01
208 101  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  9:30 a.m. - 12:30 p.m.

BIOL-V 230-L02
208 102  Fundamentals of Ecology
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  10:00 a.m. - 12:30 p.m.

BIOL-V 230-L03
208 103  Fundamentals of Ecology
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. - 12:30 p.m.

BIOL-V 230-L04
208 104  Fundamentals of Ecology
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  12:00 p.m. - 2:00 p.m.

BIOL-V 230-L05
208 105  Fundamentals of Ecology
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  2:00 p.m. - 4:30 p.m.

BIOL-V 230-L06
208 106  Fundamentals of Ecology
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  9:30 a.m. - 11:30 a.m.

BIOL-V 230-L07
208 107  Fundamentals of Ecology
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  10:00 a.m. - 12:00 p.m.

BIOL-V 230-L08
208 108  Fundamentals of Ecology
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. - 1:00 p.m.

BIOL-V 230-L09
208 109  Fundamentals of Ecology
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  12:00 p.m. - 2:00 p.m.

BIOL-V 230-L10
208 110  Fundamentals of Ecology
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  9:30 a.m. - 11:30 a.m.
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<td>BIOL_V 230-L04</td>
<td>Fundamentals of Ecology</td>
<td>Wed</td>
<td>3.0</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 230-L05</td>
<td>Fundamentals of Ecology</td>
<td>Wed</td>
<td>3.0</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>BIOL_V 230-L06</td>
<td>Fundamentals of Ecology</td>
<td>Wed</td>
<td>3.0</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>BIOL_V 230-L07</td>
<td>Fundamentals of Ecology</td>
<td>Wed</td>
<td>3.0</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>BIOL_V 230-L08</td>
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<td>Wed</td>
<td>3.0</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>BIOL_V 230-L09</td>
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<td>Wed</td>
<td>3.0</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>BIOL_V 230-L10</td>
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<td>3.0</td>
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<td>BIOL_V 230-L11</td>
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<td>3.0</td>
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<td>BIOL_V 230-L12</td>
<td>Fundamentals of Ecology</td>
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<td>BIOL_V 230-L13</td>
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<td>BIOL_V 230-L14</td>
<td>Fundamentals of Ecology</td>
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<td>BIOL_V 230-L15</td>
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<td>Wed</td>
<td>3.0</td>
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<td>BIOL_V 230-L16</td>
<td>Fundamentals of Ecology</td>
<td>Wed</td>
<td>3.0</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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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:

https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits.
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<td>200-151</td>
<td>L51</td>
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<td>200-152</td>
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<td>200-153</td>
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<td>200-154</td>
<td>L54</td>
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<td>200-155</td>
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<td>200-156</td>
<td>L56</td>
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<td>In Person Learning</td>
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<td>200-157</td>
<td>L57</td>
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<td>In Person Learning</td>
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<tr>
<td>200-158</td>
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<td>200-159</td>
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<td></td>
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<tr>
<td>200-160</td>
<td>L60</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>200-161</td>
<td>L61</td>
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<td>200-162</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
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<td>Fri</td>
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Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Fri
2:00 p.m. - 5:00 p.m.

BIOL_V 234-001
BIOL_V

T01

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Mon Wed Fri
10:00 a.m. - 11:00 a.m.

BIOL_V 234-002
BIOL_V

T02

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Mon Wed Fri
3:00 p.m. - 4:00 p.m.

BIOL_V 234-001
BIOL_V

T01

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Mon Wed Fri
10:00 a.m. - 11:00 a.m.

BIOL_V 234-002
BIOL_V

T02

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Mon Wed Fri
12:00 p.m. - 1:00 p.m.

BIOL_V 234-001
BIOL_V

T01

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Mon
11:00 a.m. - 1:00 p.m.

BIOL_V 234-002
BIOL_V

T02

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Mon
11:00 a.m. - 1:00 p.m.

BIOL_V 234-001
BIOL_V

T01

Fundamentals of Genetics

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In Person Learning

Mon
12:00 p.m. - 2:00 p.m.

BIOL_V 234-002
BIOL_V

T02

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Mon
12:00 p.m. - 2:00 p.m.

BIOL_V 234-001
BIOL_V

T01

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Tue
2:00 p.m. - 4:00 p.m.

BIOL_V 234-002
BIOL_V

T02

Fundamentals of Genetics

W1

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (8 transfer credits of first year BIOL.

In Person Learning

Tue
2:00 p.m. - 4:00 p.m.
Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121; or (d) 8 transfer credits of first-year BIOL.

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Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121; or (d) 8 transfer credits of first-year BIOL.
Fundamentals of Genetics

Principles of cellular and organismal physiology illustrated with examples from unicellular organisms, plants and animals, focusing on transport processes, water balance, nutrient acquisition and communication. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOS 121, BIOS 122; or (d) 8 transfer credits of first-year BIOL.

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOS 121, BIOS 122; or (d) 8 transfer credits of first-year BIOL.

Genotype and phenotype, mechanisms of inheritance, genetic analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOS 121, BIOS 122; or (d) 8 transfer credits of first-year BIOL.

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Biostatistics

Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: One of BIOL 112, BIOS 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOS 121, BIOS 122; or (d) 8 transfer credits of first-year BIOL.

Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-2] Prerequisite: One of BIOL 112, BIOS 121 or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOS 121, BIOS 122; or (d) 8 transfer credits of first-year BIOL.

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Prerequisites:

121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.

Prerequisites:

121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.
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<th>Description</th>
<th>Schedule</th>
<th>Location</th>
</tr>
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<tr>
<td>BIOL V 300-L21</td>
<td>300</td>
<td>Fundamentals of Biostatistics</td>
<td>Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list</a> [3-2-0] Prerequisite: One of BIOL 121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.</td>
<td>Mon</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOL V 300-L22</td>
<td>300</td>
<td>Fundamentals of Biostatistics</td>
<td>Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list</a> [3-2-0] Prerequisite: One of BIOL 121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.</td>
<td>Tue</td>
<td>In Person Learning</td>
</tr>
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<td>BIOL V 300-L23</td>
<td>300</td>
<td>Fundamentals of Biostatistics</td>
<td>Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list</a> [3-2-0] Prerequisite: One of BIOL 121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.</td>
<td>Wed</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL V 300-L24</td>
<td>300</td>
<td>Fundamentals of Biostatistics</td>
<td>Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list</a> [3-2-0] Prerequisite: One of BIOL 121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.</td>
<td>Thu</td>
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<tr>
<td>BIOL V 300-L25</td>
<td>300</td>
<td>Fundamentals of Biostatistics</td>
<td>Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list</a> [3-2-0] Prerequisite: One of BIOL 121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.</td>
<td>Fri</td>
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<tr>
<td>BIOL V 300-L26</td>
<td>300</td>
<td>Fundamentals of Biostatistics</td>
<td>Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list</a> [3-2-0] Prerequisite: One of BIOL 121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.</td>
<td>Sat</td>
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</tr>
<tr>
<td>BIOL V 300-L27</td>
<td>300</td>
<td>Fundamentals of Biostatistics</td>
<td>Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computers for statistical analysis. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusion-list</a> [3-2-0] Prerequisite: One of BIOL 121, SCIE 001. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001.</td>
<td>Sun</td>
<td>In Person Learning</td>
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BIOL_V 300-128  BIOL_V 300  
Fundamentals of Biostatistics  
In Person Learning  
Fri  
12:00 p.m. - 2:00 p.m.

BIOL_V 300-129  BIOL_V 300  
Fundamentals of Biostatistics  
In Person Learning  
Wed  
2:00 p.m. - 4:00 p.m.

BIOL_V 300-130  BIOL_V 300  
Fundamentals of Biostatistics  
In Person Learning  
Thu  
11:00 a.m. - 1:00 p.m.

BIOL_V 300-131  BIOL_V 300  
Fundamentals of Biostatistics  
In Person Learning  
Tue  
2:00 p.m. - 4:00 p.m.

BIOL_V 300-132  BIOL_V 300  
Fundamentals of Biostatistics  
In Person Learning  
Wed  
11:00 a.m. - 1:00 p.m.

BIOL_V 300-133  BIOL_V 300  
Fundamentals of Biostatistics  
In Person Learning  
Thu  
2:00 p.m. - 4:00 p.m.

BIOL_V 300-134  BIOL_V 300  
Fundamentals of Biostatistics  
In Person Learning  
Fri  
2:00 p.m. - 4:00 p.m.

BIOL_V 301-001  BIOL_V 301  
Biomathematics  
In Person Learning  
Tue Thu  
8:00 a.m. - 9:30 a.m.

BIOL_V 301-002  BIOL_V 301  
Biomathematics  
In Person Learning  
Arranged  
Arranged

BIOL_V 301-003  BIOL_V 301  
Biomathematics  
In Person Learning  
Tue  
2:00 p.m. - 3:30 p.m.

BIOL_V 301-004  BIOL_V 301  
Biomathematics  
In Person Learning  
Tue  
2:00 p.m. - 3:30 p.m.

BIOL_V 301-005  BIOL_V 301  
Biomathematics  
In Person Learning  
Arranged  
Arranged

BIOL_V 302-001  BIOL_V 302  
Biodiversity, Human & Planetary Health  
In Person Learning  
Mon Wed Fri  
10:00 a.m. - 11:00 a.m.

BIOL_V 302-002  BIOL_V 302  
Biodiversity, Human & Planetary Health  
In Person Learning  
Wed  
12:00 p.m. - 1:00 p.m.

BIOL_V 302-003  BIOL_V 302  
Biodiversity, Human & Planetary Health  
In Person Learning  
Wed  
1:00 p.m. - 2:00 p.m.

BIOL_V 302-004  BIOL_V 302  
Biodiversity, Human & Planetary Health  
In Person Learning  
Mon Wed Fri  
9:00 a.m. - 10:00 a.m.

Advanced Ecology  
In Person Learning  
Mon Wed  
11:00 a.m. - 12:00 p.m.
The evolutionary diversity of the fungi as shown by their morphology and reproductive biology. [2-3-0] Prerequisite: BIOL 121.

Structure and reproduction of fungi. 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. [3-3*-0] Prerequisite: BIOL 230.

Animal behavior from an ecological and evolutionary perspective; the methods used to study behavior and test its adaptive significance. [3-0-2] Prerequisite: BIOL 121. Third-year standing is required.

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. [3-3*-0] Prerequisite: BIOL 230.

The evolutionary diversity of the fungi as shown by their morphology and reproductive biology. [3-3-0] Prerequisite: BIOL 121.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Day(s)</th>
<th>Time (Start/End)</th>
<th>Type</th>
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<tr>
<td>BIOL 324</td>
<td>3</td>
<td>Introduction to Seed Plant Taxonomy</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>BIOL 325</td>
<td>3</td>
<td>Developmental Biology</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL 326</td>
<td>3</td>
<td>Experimental Biology of Invertebrates</td>
<td>W2</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL 327</td>
<td>3</td>
<td>Introduction to Entomology</td>
<td>W2</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

Prerequisite: Either (a) BIOL 201 or (b) all of BIOL 200, BIOL 260 and one of BIOL 233, BIOL 234.

Animal development and its underlying causal principles; introductory embryology. [3-5-0]
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Delivery</th>
<th>Credits</th>
<th>Time</th>
<th>Days</th>
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<tr>
<td>BIOL 332-201</td>
<td>BIOL 332</td>
<td>201</td>
<td>Protology</td>
<td></td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>BIOL 332-101</td>
<td>BIOL 332</td>
<td>101</td>
<td>Protology</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-201</td>
<td>BIOL 335</td>
<td>201</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>BIOL 335-202</td>
<td>BIOL 335</td>
<td>202</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>BIOL 335-751</td>
<td>BIOL 335</td>
<td>751</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-752</td>
<td>BIOL 335</td>
<td>752</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>BIOL 335-753</td>
<td>BIOL 335</td>
<td>753</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-754</td>
<td>BIOL 335</td>
<td>754</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>BIOL 335-755</td>
<td>BIOL 335</td>
<td>755</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>BIOL 335-756</td>
<td>BIOL 335</td>
<td>756</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-757</td>
<td>BIOL 335</td>
<td>757</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-758</td>
<td>BIOL 335</td>
<td>758</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-759</td>
<td>BIOL 335</td>
<td>759</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-761</td>
<td>BIOL 335</td>
<td>761</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 335-762</td>
<td>BIOL 335</td>
<td>762</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>BIOL 335-763</td>
<td>BIOL 335</td>
<td>763</td>
<td>Molecular Genetics</td>
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<td>In Person Learning</td>
<td>Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>BIOL 335-764</td>
<td>BIOL 335</td>
<td>764</td>
<td>Molecular Genetics</td>
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<td>In Person Learning</td>
<td>Thu</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>BIOL 335-765</td>
<td>BIOL 335</td>
<td>765</td>
<td>Molecular Genetics</td>
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<td>Thu</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>BIOL 335-767</td>
<td>BIOL 335</td>
<td>767</td>
<td>Molecular Genetics</td>
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<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>BIOL 335-771</td>
<td>BIOL 335</td>
<td>771</td>
<td>Molecular Genetics</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL 336-101</td>
<td>BIOL 336</td>
<td>101</td>
<td>Fundamentals of Evolutionary Biology</td>
<td></td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>BIOL 336-201</td>
<td>BIOL 336</td>
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<td>Fundamentals of Evolutionary Biology</td>
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<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:10 p.m.</td>
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<td>BIOL 336-701</td>
<td>BIOL 336</td>
<td>701</td>
<td>Fundamentals of Evolutionary Biology</td>
<td></td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:00 p.m. - 2:10 p.m.</td>
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<td>BIOL 336-702</td>
<td>BIOL 336</td>
<td>702</td>
<td>Fundamentals of Evolutionary Biology</td>
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<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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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.
Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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 9:00 a.m. - 10:00 a.m.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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. - 12:00 p.m.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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. - 5:00 p.m.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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In Person Learning Tue 2:00 p.m. - 3:00 p.m.

Fundamentals of Evolutionary Biology

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In Person Learning Tue 2:00 p.m. - 3:00 p.m.

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In Person Learning Tue 2:00 p.m. - 3:00 p.m.

Fundamentals of Evolutionary Biology

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In Person Learning Tue 2:00 p.m. - 3:00 p.m.

Fundamentals of Evolutionary Biology

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.

Fundamentals of Evolutionary Biology

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Details</th>
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<tr>
<td>BIOL V 341</td>
<td>Introductory Molecular Biology Laboratory</td>
<td>2</td>
<td>A laboratory course demonstrating the fundamental principles of inheritance: Mendel's Laws, sex-linkage, mapping, recombination, chromosome structure, development, molecular biology, biochemical and population genetics.</td>
<td>BIOL 200, Correlated: BIOL 214, 224.</td>
<td>In Person Learning: Wed Fri 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>W1</td>
<td>Introductory Molecular Biology Laboratory</td>
<td>2</td>
<td>An introduction to genome biology and applications of genomics.</td>
<td>BIOL 200, BIOL 214, 224, FRST 102.</td>
<td>In Person Learning: Mon Wed Fri 9:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>W1</td>
<td>Introductory Molecular Biology Laboratory</td>
<td>2</td>
<td>An introduction to genome biology and applications of genomics.</td>
<td>BIOL 200, BIOL 214, 224, FRST 102.</td>
<td>In Person Learning: Wed 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>W1</td>
<td>Introductory Molecular Biology Laboratory</td>
<td>2</td>
<td>An introduction to genome biology and applications of genomics.</td>
<td>BIOL 200, BIOL 214, 224, FRST 102.</td>
<td>In Person Learning: Wed 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>W2</td>
<td>Introductory Molecular Biology Laboratory</td>
<td>2</td>
<td>An introduction to genome biology and applications of genomics.</td>
<td>BIOL 200, BIOL 214, 224, FRST 102.</td>
<td>In Person Learning: Thu 11:00 a.m. - 12:30 p.m.</td>
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In Person Learning

101

W2

Wed

Tue Thu

9:30 a.m. - 12:30 p.m.

Arranged

L12

Plant Physiology I

12:30 p.m. - 2:00 p.m.

3:00 p.m. - 5:00 p.m.

Plant Physiology II: Plant Development

W1

9:00 a.m. - 10:00 a.m.

In Person Learning

Mon

9:30 a.m. - 12:30 p.m.

In Person Learning

Tue

2:00 p.m. - 5:00 p.m.

In Person Learning

Wed

2:00 p.m. - 5:00 p.m.

In Person Learning

Thu

2:00 p.m. - 5:00 p.m.

In Person Learning

Fri

12:00 p.m. - 1:00 p.m.

In Person Learning

Mon

12:00 p.m. - 1:00 p.m.

In Person Learning

Mon

3:00 p.m. - 5:00 p.m.

In Person Learning

Fri

3:00 p.m. - 5:00 p.m.

In Person Learning

Wed

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

Mon

11:00 a.m. - 12:30 p.m.

In Person Learning

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11:00 a.m. - 12:30 p.m.

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In Person Learning

Mon

11:00 a.m. - 12:30 p.m.
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 BIOA 233, BIOL 234; or (b) FRST 232. CHEM 233 is recommended.

In Person Learning
Mon
2:00 p.m. - 5:00 p.m.

In Person Learning
Tue
2:00 p.m. - 5:00 p.m.

In Person Learning
Wed
2:00 p.m. - 5:00 p.m.

Cell culture, cell division, 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 BIOA 233, BIOL 234; or (b) FRST 232. CHEM 233 is recommended.

In Person Learning
Thu
2:00 p.m. - 5:00 p.m.

In Person Learning
Fri
10:00 a.m. - 11:00 a.m.

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 Thu
11:00 a.m. - 12:30 p.m.

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 BIOA 233, BIOL 234; or (b) FRST 232. CHEM 233 is recommended.

In Person Learning
Fri
12:00 p.m. - 1:00 p.m.

In Person Learning
Fri
12:00 p.m. - 1:00 p.m.

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. - 2:00 p.m.

In Person Learning
Fri
1:00 p.m. - 2:00 p.m.

In Person Learning
Wed
1:00 p.m. - 2:00 p.m.

In Person Learning
Thu
1:00 p.m. - 2:00 p.m.

In Person Learning
Fri
2:00 p.m. - 3:00 p.m.

In Person Learning
Tue
2:00 p.m. - 3:00 p.m.

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 BIOA 233, BIOL 234; or (b) FRST 232. CHEM 233 is recommended.

In Person Learning
Wed
2:00 p.m. - 3:00 p.m.

In Person Learning
Fri
2:00 p.m. - 3:00 p.m.

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
Mon
2:00 p.m. - 3:00 p.m.

In Person Learning
Wed
2:00 p.m. - 3:00 p.m.

In Person Learning
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In Person Learning
Fri
2:00 p.m. - 3:00 p.m.

In Person Learning
Wed
2:00 p.m. - 3:00 p.m.
Ornithology and Herpetology
10:00 a.m. - 11:00 a.m.
420
In Person Learning

Principles of Conservation Biology
418
Plant-Microbe Interactions
Evolutionary Processes in Plants
416
In Person Learning

Phylogenography
412
Experimental and comparative analysis of evolutionary processes, special, and phylogenetic patterns in plants. [3-0-0] Prerequisite: BIOL 201.

Evolutionary Processes in Plants
415
In Person Learning

Ecological basis of conserving biological diversity and ecosystems 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/grade-exclusions.html. [3-0-2] Prerequisite: One of BCR 306, RST 201.

Principles of Conservation Biology
416
Experimental and comparative analysis of evolutionary processes, special, and phylogenetic patterns in plants. [3-0-2] Prerequisite: BIOL 306.

Biological Basis of Community Ecology and Evolution
417
Phylogenetic Biology

The ecological and evolutionary basis of community ecology and evolution in managed populations. [3-0-2] Prerequisite: BIOL 200 and one of BIOL 233, BIOL 234, BIOL 260. Equivalency: APBI 426

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. [2-2-0] Prerequisite: BIOL 336 and BIOL 306.

Experimental and comparative analysis of evolutionary processes, special, and phylogenetic patterns in plants. [3-0-0] Prerequisite: BIOL 201.

Biological Basis of Community Ecology and Evolution
418
Phylogenetic Biology

The ecological and evolutionary basis of community ecology and evolution in managed populations. [3-0-2] Prerequisite: BIOL 306.

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. [2-2-0] Prerequisite: BIOL 336 and BIOL 306.

Ecological adaptation and evolutionary processes in contemporary populations; natural selection, variation, optimization, foraging theory, competition, animal-plant interactions; the evolutionary theory of sex, sexual selection, evolution in managed populations. [2-2-0] Prerequisite: BIOL 306 and BIOL 301.

Ecological adaptation and evolutionary processes in contemporary populations; natural selection, variation, optimization, foraging theory, competition, animal-plant interactions; the evolutionary theory of sex, sexual selection, evolution in managed populations. [2-2-0] Prerequisite: BIOL 306 and BIOL 301.

An interdisciplinary conservation course with a solutions-oriented approach to marine issues, drawing from natural sciences, social sciences, business, law, and communications. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing.

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. [2-2-0] Prerequisite: BIOL 336 and one of BCR 306, RST 201, GEOS 207, GEOS 208.

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. [2-2-0] Prerequisite: BIOL 336 and one of BCR 306, RST 201, GEOS 207, GEOS 208.

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. [2-2-0] Prerequisite: BIOL 336 and one of BCR 306, RST 201, GEOS 207, GEOS 208.

Ecology, evolution, behavior, and conservation of birds, amphibians, and reptiles. Laboratory and field projects will focus on identification, systematics, and natural history, with particular attention to species from British Columbia. [2-0-0] Prerequisite: WSC 313.

Ecology, evolution, behavior, and conservation of birds, amphibians, and reptiles. Laboratory and field projects will focus on identification, systematics, and natural history, with particular attention to species from British Columbia. [2-0-0] Prerequisite: WSC 313.

Ecology, evolution, behavior, and conservation of birds, amphibians, and reptiles. Laboratory and field projects will focus on identification, systematics, and natural history, with particular attention to species from British Columbia. [2-0-0] Prerequisite: WSC 313.
BIOL 447-101
11:00 a.m. - 11:50 a.m.
Comparative analysis of marine invertebrate morphology from a macroevolutionary perspective. Origins and evolution of reoccurring adaptations in mollusks, brachiopods, and other marine invertebrates, including fossil larval stages. (3-0-4) Prerequisite: BIOL 205. Arranged. In Person Learning Thu Fri 12:00 p.m. - 1:00 p.m.
BIOL 450-102
2:00 p.m. - 2:50 p.m.
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. (3-0-4) Prerequisite: One of BIOL 101, BIOL 166, BIOL 188. In Person Learning Thu Thu 9:30 a.m. - 11:00 a.m.
BIOL 451-101
9:00 a.m. - 10:00 a.m.
Evolutionary Cell Biology
BIOL 452-101
9:30 a.m. - 11:00 a.m.
Research Strategies and Techniques in Cell Biology
BIOL 453-101
1:00 p.m. - 2:00 p.m.
In Person Learning
BIOL 454-101
12:00 p.m. - 12:50 p.m.
Plant Genomics
BIOL 456-101
1:00 p.m. - 3:00 p.m.
Ultrastructure, biogenesis, and evolution of eukaryotic cells and organelles, including their macromolecular basis. (3-0-4) Prerequisite: BIOL 205 and fourth-year standing. In Person Learning Thu Thu 11:00 a.m. - 12:00 p.m.
BIOL 458-101
12:00 p.m. - 2:00 p.m.
Seminars, debates, workshops and tutorials designed to produce competence in specific areas of biological research. Restricted to Honours students in Biology. [2-3-0] Corequisite: BIOL 449. In Person Learning Mon Wed Fri 9:00 a.m. - 11:00 a.m.
BIOL 459-101
12:00 p.m. - 1:00 p.m.
Darwin's Fishes
BIOL 460-101
1:00 p.m. - 2:00 p.m.
Advanced Microscopy Techniques
BIOL 461-101
3:00 p.m. - 4:00 p.m.
Advanced Topics in Cell Biology
BIOL 462-101
2:00 p.m. - 3:00 p.m.
In Person Learning
BIOL 463-101
9:30 a.m. - 11:00 a.m.
Laboratory in Animal Cell Molecular Biology
BIOL 464-101
3:00 p.m. - 5:00 p.m.
Seminars, debates, workshops and tutorials designed to produce competence in specific areas of biological research. Restricted to Honours students in Biology. [2-3-0] Corequisite: BIOL 449. In Person Learning Mon Wed Fri 9:00 a.m. - 11:00 a.m.
BIOL 465-101
3:30 p.m. - 4:30 p.m.
Analysis of cellular organelles and the intracellular traffic between them, concentrating on mammalian cell systems. (3-0-4) Prerequisite: One of BIOL 340, BIOL 341 and one of BIOL 361, BIOL 362, BIOL 376, BIOL 377. In Person Learning Thu Thu 10:00 a.m. - 10:50 a.m.
BIOL 466-101
10:00 a.m. - 10:50 a.m.
Plant Genetics
BIOL 467-101
10:00 a.m. - 11:00 a.m.
Principles and Methodology in Biological Research
BIOL 468-A_201
9:00 a.m. - 11:00 a.m.
Directed Studies in Biology
BIOL 469-A_201
9:00 a.m. - 11:00 a.m.
Directed Studies in Biology
BIOL 470-101
3:00 p.m. - 4:00 p.m.
Darwin's Fishes
BIOL 471-101
2:00 p.m. - 3:00 p.m.
Darwin's Fishes
A course designed to allow students to undertake a research project in selected fields. Open only to major students in biology, with permission of the supervisor. Presentation of a thesis and oral examination are required. (3-0-0) Prerequisite: BIOL 448.

In Person Learning Mon Wed Fri

2:00 a.m. - 5:00 a.m.

W1-2

Directed Studies in Biology

Directed Studies in Biology

Molecular Adaptation of Animals to the Environment

Advanced investigations of the evolution of animal nervous systems, integrating studies of diverse species to understand fundamental neurobiology. [3-0-0] Prerequisite: One of APBI 311, BIOL 361, BIOL 362, BIOL 364, BIOL 370, BIOS 375 and one of BIOS 203, BIOS 212, BIOS 303, BIOS 437 is recommended.

In Person Learning Tue Thu

9:30 a.m. - 11:00 a.m.

W1

Insect Physiology

Insect Physiology

In Person Learning Thu

2:00 p.m. - 5:00 p.m.

W1

Comparative Animal Physiology

Comparative Animal Physiology

In Person Learning Tue Thu

11:30 a.m. - 12:30 p.m.

W2

Comparative Environmental Physiology

Comparative Environmental Physiology

In Person Learning Tue Thu

11:30 a.m. - 12:30 p.m.

W1

Developmental Neurobiology

Developmental Neurobiology

In Person Learning Tue Thu

9:30 a.m. - 11:00 a.m.

W1

Neurobiology of Sensory and Motor Systems

Neurobiology of Sensory and Motor Systems

In Person Learning Wed Fri

1:00 p.m. - 2:30 p.m.

W2

Neurobiology of Vision

Neurobiology of Vision

In Person Learning Tue Thu

2:30 p.m. - 5:00 p.m.

W1

Ecological Plant Biochemistry

Ecological Plant Biochemistry

In Person Learning Wed

8:00 a.m. - 11:00 a.m.

W2

Gene Regulation in Development

Gene Regulation in Development

In Person Learning Mon Wed Fri

1:00 p.m. - 2:30 p.m.

W1

Animal Developmental Genetics

Animal Developmental Genetics

In Person Learning Mon Wed Fri

1:00 p.m. - 2:30 p.m.

W2

Diversity and Evolution of Fishes

Diversity and Evolution of Fishes

In Person Learning Tue Thu

10:00 a.m. - 12:00 p.m.

W1

Diversity and Evolution of Fishes

Diversity and Evolution of Fishes

In Person Learning Wed

2:00 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL_V 530-101</td>
<td>The Biology of the Cell</td>
<td></td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 530-102</td>
<td>Diversity and Evolution of Fishes</td>
<td>W1</td>
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<td>BIOL_V 488-A_201</td>
<td>Topics in Biology</td>
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<td>BIOL_V 488-B_101</td>
<td>Topics in Biology</td>
<td>W1</td>
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<tr>
<td>BIOL_V 498-110</td>
<td>Co-operative Work Placement III</td>
<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 498-110</td>
<td>Co-operative Work Placement III</td>
<td>W2</td>
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<tr>
<td>BIOL_V 499-510</td>
<td>Advanced Microscopy Techniques</td>
<td>W2</td>
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<tr>
<td>BIOL_V 501-201</td>
<td>Quantitative Methods in Ecology and Evolution</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>BIOL_V 503-201</td>
<td>Microbial Ecology</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>BIOL_V 503-101</td>
<td>Microbial Ecology</td>
<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 509-201</td>
<td>Population and Quantitative Genetics</td>
<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 515-D_101</td>
<td>Topics in Systematics and Evolution</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 530-101</td>
<td>The Biology of the Cell</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 533-201</td>
<td>Plant Genetics</td>
<td>W2</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>BIOL_V 533-101</td>
<td>Plant Genetics</td>
<td>W2</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>BIOL_V 537-101</td>
<td>Topics in Biotechnology</td>
<td>W1</td>
<td>In Person Learning</td>
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</tr>
<tr>
<td>BIOL_V 539-101</td>
<td>Advanced Microscopy Techniques</td>
<td>W2</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>BIOL_V 548-B_101</td>
<td>Advanced Topics in Biology</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 548-B_101</td>
<td>Advanced Topics in Biology</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>BIOL_V 548-E_102</td>
<td>Advanced Topics in Biology</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
</tr>
</tbody>
</table>
This course is not eligible for Credit/D/Fail grading.
The credit value for this course will be determined in consultation with the student prior to the registration.

Registration
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>BIOL_V 548-T_101</td>
<td>Advanced Topics in Biology</td>
<td>W</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>Online Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>BIOL_V 548-T_102</td>
<td>Advanced Topics in Biology</td>
<td>W</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>Thu</td>
</tr>
<tr>
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<td>Advanced Topics in Biology</td>
<td>U</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>Online Learning</td>
<td>Tue</td>
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<td>Advanced Topics in Biology</td>
<td>U</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>Online Learning</td>
<td>Thu</td>
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<tr>
<td>BIOL_V 548-V_101</td>
<td>Advanced Topics in Biology</td>
<td>V</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>Online Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>IMEG_V 101-101</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>T_101</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>IMEG_V 101-102</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>T_102</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>IMEG_V 101-104</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>T_104</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>IMEG_V 101-105</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>T_105</td>
<td>8:00 a.m. - 9:30 a.m.</td>
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<td>Thu</td>
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<tr>
<td>IMEG_V 102-L2A</td>
<td>Biomedical Engineering Lab</td>
<td>L2A</td>
<td>This course is not eligible for Credit/D/Fail grading. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Wed</td>
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<tr>
<td>IMEG_V 102-L2B</td>
<td>Biomedical Engineering Lab</td>
<td>L2B</td>
<td>This course is not eligible for Credit/D/Fail grading. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading.</td>
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<td>L2C</td>
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<td>8:00 a.m. - 9:30 a.m.</td>
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<td>102</td>
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<td>Tue</td>
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<tr>
<td>IMEG_V 103-104</td>
<td>Biomedical Engineering Lab</td>
<td>104</td>
<td>This course is not eligible for Credit/D/Fail grading. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>IMEG_V 103-105</td>
<td>Biomedical Engineering Lab</td>
<td>105</td>
<td>This course is not eligible for Credit/D/Fail grading. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading.</td>
<td>Online Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>IMEG_V 201-201</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>201</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>IMEG_V 201-202</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>202</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
</tbody>
</table>
Biomechanics I

11:00 a.m. - 1:00 p.m.
In Person Learning
L1D
L1E
W2

Work, heat, and energy, material and energy balances, the first law and second law of thermodynamics, entropy and process reversibility, availability (energy) analysis. Hero's Law; thermodynamic properties of fluids; 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.

Thermodynamics in Biomedical Engineering

W1

Electromagnetic phenomena in the body; bioinstrumentation, electrostatic and electromagnetic fields, forces, capacitance and inducance; bio-effects of electromagnetic fields; 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 364.

In Person Learning
Thu
2:00 p.m. - 3:00 p.m.

Circuits and Electromagnetics with Application to Biomedical Engineering

W2

Electromagnetic phenomena in the body; bioinstrumentation, electrostatic and electromagnetic fields, forces, capacitance and inducance; bio-effects of electromagnetic fields; 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 364.

In Person Learning
Fri
2:00 p.m. - 3:00 p.m.

Circuits and Electromagnetics with Application to Biomedical Engineering

W2

Electromagnetic phenomena in the body; bioinstrumentation, electrostatic and electromagnetic fields, forces, capacitance and inducance; bio-effects of electromagnetic fields; 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 364.

In Person Learning
Wed
2:00 p.m. - 3:00 p.m.

Circuits and Electromagnetics with Application to Biomedical Engineering

W2

Electromagnetic phenomena in the body; bioinstrumentation, electrostatic and electromagnetic fields, forces, capacitance and inducance; bio-effects of electromagnetic fields; 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 364.

In Person Learning
Wed
2:00 p.m. - 3:00 p.m.

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. 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. (4-6-2*) Prerequisite: Either (a) all of BMEG 101, PHYS 170 or (b) all of APSC 101, BMEG 200, PHY205.

In Person Learning
Thu
2:00 p.m. - 3:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Delivery</th>
<th>Schedule</th>
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</thead>
<tbody>
<tr>
<td>BMEG 245-L1A</td>
<td>The Fundamental Units of Life: From Cells To Systems</td>
<td>W1</td>
<td>The structure and function of cells and how they are organized to generate tissues and organ systems (3-3*-0)</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri</td>
</tr>
<tr>
<td>BMEG 245-L1B</td>
<td>The Fundamental Units of Life: From Cells To Systems</td>
<td>W1</td>
<td>The structure and function of cells and how they are organized to generate tissues and organ systems (3-3*-0)</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri</td>
</tr>
<tr>
<td>BMEG 245-L1C</td>
<td>The Fundamental Units of Life: From Cells To Systems</td>
<td>W1</td>
<td>The structure and function of cells and how they are organized to generate tissues and organ systems (3-3*-0)</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri</td>
</tr>
<tr>
<td>BMEG 245-L1D</td>
<td>The Fundamental Units of Life: From Cells To Systems</td>
<td>W1</td>
<td>The structure and function of cells and how they are organized to generate tissues and organ systems (3-3*-0)</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri</td>
</tr>
<tr>
<td>BMEG 250-101</td>
<td>Biomedical Instrumentation</td>
<td>W2</td>
<td>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. [3-0-1]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>BMEG 250-102</td>
<td>Introduction to Bioinformatics</td>
<td>W1</td>
<td>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. [3-0-1]</td>
<td>In Person Learning</td>
<td>Mon</td>
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<tr>
<td>BMEG 250-12A</td>
<td>Biomedical Engineering Design I</td>
<td>W2</td>
<td>Engineering design process for biomedical design. Practical skills in engineering design, computer aided design, electronic circuits, programming, and rapid prototyping in the context of biomedical design. Introduction to broader ethical and sustainability considerations for biomedical design. This course is not eligible for Credit/D/Fail grading. [3-4-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 250-21A</td>
<td>Biomedical Instrumentation</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 320-201</td>
<td>Biomedical Instrumentation</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Mon-Fri</td>
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<tr>
<td>BMEG 330-101</td>
<td>Biomechanics I</td>
<td>W2</td>
<td>Linearization; feedback, stability and sensitivity; control system design. Examples from biological systems, robotics systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. [3-1-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 330-102</td>
<td>Biomechanics II</td>
<td>W2</td>
<td>Modelling, analysis and simulation of dynamic systems; system modelling by state space; linearization; feedback, stability and sensitivity; control system design. Examples from biological systems, robotics systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. [3-1-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>BMEG 330-12A</td>
<td>Biomechanics III</td>
<td>W2</td>
<td>Modelling, analysis and simulation of dynamic systems; system modelling by state space; linearization; feedback, stability and sensitivity; control system design. Examples from biological systems, robotics systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. [3-1-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>BMEG 330-201</td>
<td>Biomechanics IV</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>BMEG 330-202</td>
<td>Biomechanics V</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 330-22A</td>
<td>Biomechanics VI</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 330-22B</td>
<td>Biomechanics VII</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>BMEG 330-22C</td>
<td>Biomechanics VIII</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 330-22D</td>
<td>Biomechanics IX</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 330-22E</td>
<td>Biomechanics X</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>BMEG 330-22F</td>
<td>Biomechanics XI</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 330-22G</td>
<td>Biomechanics XII</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>BMEG 330-22H</td>
<td>Biomechanics XIII</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>BMEG 330-22I</td>
<td>Biomechanics XIV</td>
<td>W2</td>
<td>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 223, ELEC 211. This course is not eligible for Credit/D/Fail grading. [3-3*-0]</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>BMEG 321-L2D</td>
<td>Biomedical Instrumentation</td>
<td>W2</td>
<td>Wed (Alt)</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>BMEG 321-L2E</td>
<td>Biomedical Instrumentation</td>
<td>W2</td>
<td>Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>BMEG 330-201</td>
<td>Biomechanics II</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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</table>

Fundamental working principles of biophysical, chemical, and mechanical properties of biomaterials. Techniques of tissue engineering. Design of experiments and tools related to these essential biomaterials. This course is not eligible for Credit/D/Fail grading. [3*-3*-0] Prerequisite: BMEG 257.

Fundamental working principles of biophysical, chemical, and mechanical properties of biomaterials. Techniques of tissue engineering. Design of experiments and tools related to these essential biomaterials. This course is not eligible for Credit/D/Fail grading. [3*-3*-0] Prerequisite: BMEG 257.

Creating innovations in biomedical technologies. Supervised design process for clinical devices, including the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [4-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 257.

Transport Phenomena within Cells and Tissues [3-0-0] Prerequisite: BMEG 230.

Principles of transport phenomena and membrane barrier to mass and heat transfer in the human body.

Principles of transport phenomena and membrane barrier to mass and heat transfer in the human body.

Principles and counterexamples of transport phenomena and membrane barrier to mass and heat transfer in the human body.

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Principles and counterexamples of transport phenomena and membrane barrier to mass and heat transfer in the human body.
BMEG 400-L_201 Biomedical Equipment, Physiology, and Anatomy
(i-1) L_201 Topics in Biomedical Engineering 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 10:00 a.m. - 12:00 p.m.

BMEG 400-K_201 Biomedical Equipment, Physiology, and Anatomy
(K) K_201 Topics in Biomedical Engineering 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 400-T_201 Biomedical Equipment, Physiology, and Anatomy
(T) T_201 Topics in Biomedical Engineering 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 400-Q_201 Biomedical Equipment, Physiology, and Anatomy
(Q) Q_201 Topics in Biomedical Engineering 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 Fri 10:00 a.m. - 11:00 a.m.

BMEG 401-201 Biomedical Equipment, Physiology, and Anatomy
201 Economics of Healthcare Solutions W2 Canadian and USA engineering economics in BME and healthcare systems. Economic equivalences, 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 402-201 Biomedical Equipment, Physiology, and Anatomy
202 Economics of Healthcare Solutions W2 Canadian and USA engineering economics in BME and healthcare systems. Economic equivalences, 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 403-101 Biomedical Equipment, Physiology, and Anatomy
403 101 Impact of Biomedical Engineering on Society, Sustainability and Environmental Stewardship W1 Impact of biomedical engineering on health, safety, and political, cultural, economic 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 403-201 Biomedical Equipment, Physiology, and Anatomy
403 201 Impact of Biomedical Engineering on Society, Sustainability and Environmental Stewardship W2 Principles and approaches of biomedical equipment for cardiovascular systems, respiratory systems, renal dialysis, embolism, 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 430 or BMEG 530. [3-0-2] In Person Learning Arranged

BMEG 410-101 Biomedical Equipment, Physiology, and Anatomy
410 101 Biomedical Equipment, Physiology, and Anatomy W1 Principles and operation of biomedical equipment for cardiovascular systems, respiratory systems, renal dialysis, embolism, 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 430 or BMEG 530. [3-0-2] In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

BMEG 410-TIA Biomedical Equipment, Physiology, and Anatomy
TIA TIA Biomedical Equipment, Physiology, and Anatomy W1 Principles and operation of biomedical equipment for cardiovascular systems, respiratory systems, renal dialysis, embolism, 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 430 or BMEG 530. [3-0-2] Prerequisite: One of BMEG 243, BMEG 250 and one of BMEG 241, ELEC 171. Equivalency: ELEC 171 In Person Learning Thu 5:00 p.m. - 7:00 p.m.

BMEG 410-101 Biomedical Equipment, Physiology, and Anatomy
410 101 Medical Imaging W1 Physical principles of advanced, magnetic resonance, computed tomography, X-ray projection imaging and molecular imaging in medical imaging for diagnostics, therapy and interventions. [2-0-0] Prerequisite: One of BMEG 240, BMEG 250 and one of BMEG 241, ELEC 171. Equivalency: ELEC 171 In Person Learning Tue Thu 9:00 a.m. - 10:30 a.m.

BMEG 421-101 Biomedical Equipment, Physiology, and Anatomy
421 101 Linear Systems in Optics W1 Linear system theory and Fourier Optics, applications in optics involving wave propagation and image quality assessment. Credit will be granted for only one of BMEG 425 or BiMEG 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 422-201 Biomedical Equipment, Physiology, and Anatomy
422 201 Modern Biomedical Optical Imaging W2 Advanced mathematical optical imaging concepts, fundamental optics, optical OCT theories, advanced modern OCT technologies, and OCT applications in clinical medicine and biomedical engineering. Credit will be granted for only one of BMEG 422 or BiMEG 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 423-101 Biomedical Equipment, Physiology, and Anatomy
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 BiMEG 523. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 5:00 p.m. - 6:30 p.m.

BMEG 434-201 Biomedical Equipment, Physiology, and Anatomy
434 201 Genome Informatics W2 Principles and best practices in analyzing genomic data. Genome architecture, mapability, repeat elements, SNP case, open chromatin, histone modifications, single-cell genomics, genome-wide association studies, statistical analysis, computational analysis, data processing. Credit will be granted for only one of BMEG 434 or BiMEG 524. This course is not eligible for Credit/D/Fail grading. Prerequisite: BiMEG 310 or equivalent. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

BMEG 435-101 Biomedical Equipment, Physiology, and Anatomy
435 101 Biomedical Robotics W1 Biomedical robotics, mathematical fundamentals of biomechanics, dynamics and control of robots by human operators, and applications of biomedical robotics. This course is not eligible for Credit/D/Fail grading. Prerequisite: BiMEG 310 or equivalent. In Person Learning Mon Wed Fri 9:00 a.m. - 10:30 a.m.

BMEG 435-101 Biomedical Equipment, Physiology, and Anatomy
435 101 Professionalism and Ethics in Biomedical Engineering W1 Critical, equity, and diversity issues and professionalism in biomedical engineering practice and design. Case studies and design projects will be used to expand on the foundations of biomedical engineering design, applying real-world ethical dilemmas including professionalism, 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. - 2:30 p.m.

BMEG 435-101 Biomedical Equipment, Physiology, and Anatomy
435 101 Clinical and Industrial Biomedical Engineering W1 Capstone design and development of a practical biomedical device or system. Projects provided by local industry and engineering research laboratories. [3-0-0] Prerequisite: All of BMEG 245, BiMEG 255. In Person Learning Mon 6:00 p.m. - 7:30 p.m.

BMEG 437-101 Biomedical Equipment, Physiology, and Anatomy
437 101 Biomedical Engineering Design Project W1-2 Biomedical engineering design and development of a practical biomedical device or system. Projects provided by local industry and engineering research laboratories. [3-0-1] 1-1-1 Prerequisite: All of BMEG 245, BiMEG 257. In Person Learning Fri 10:00 a.m. - 11:00 a.m.

BMEG 437-50A Biomedical Equipment, Physiology, and Anatomy
50A 50A Biomedical Engineering Design Project W1-2 Biomedical engineering design and development of a practical biomedical device or system. Projects provided by local industry and engineering research laboratories. [3-0-1] 1-1-1 Prerequisite: All of BMEG 245, BiMEG 257. In Person Learning Tue 11:00 a.m. - 12:00 p.m.

BMEG 470-201 Biomedical Equipment, Physiology, and Anatomy
470 201 Cellular Response to Forces and Biomechanics W2 Biomechanical forces and biomechanics regulating cellular functions critical to tissue development, regeneration and repair. [3-0-0] Prerequisite: All of BMEG 245, BiMEG 255, BiMEG 257. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

BMEG 476-201 Biomedical Equipment, Physiology, and Anatomy
476 201 Stem Cells and Regenerative Medicine W2 Biology and applications of stem cells in regenerative medicine. Modeling 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, BiMEG 255, BiMEG 257. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.
BMEG_V 400-A_201  BMEG_V 400 A  A_201  Introduction to Academic Research  W2  Research project directed by a faculty member in Biomedical Engineering. Course may include workshops. Prerequisite: Fourth-year standing and at least 80% average in third-year courses. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Tue 8:30 a.m. - 10:00 a.m.

BMEG_V 400-B_201  BMEG_V 400 B  B_201  Introduction to Academic Research  W1-2  Research project directed by a faculty member in Biomedical Engineering. Course may include workshops. Prerequisite: Fourth-year standing and at least 80% average in third-year courses. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

BMEG_V 405-C_201  BMEG_V 405  C_201  Biomeasurement  W2  Engineered materials in medical applications with an emphasis on material properties, functionality, design, and material responses in the biological environment. Credit will be granted for only one of MTRL 405 or BMEG 405. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: APSC 276. In Person Learning Wed Fri 1:00 p.m. - 2:30 p.m.

BMEG_V 405-T3A  BMEG_V 405 T3A  Biomeasurement  W2  Engineered materials in medical applications with an emphasis on material properties, functionality, design, and material responses in the biological environment. Credit will be granted for only one of MTRL 405 or BMEG 405. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: APSC 276. In Person Learning Mon 2:00 p.m. - 3:00 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-T3A  BMEG_V 500 T3A  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 501-101  BMEG_V 501  101  Interdisciplinary Team-Project in Medical Technology Innovation  W1-2  This course is not eligible for Credit/D/Fail grading.

BMEG_V 510-101  BMEG_V 510  101  Anatomy and Physiology with Applications to Biomedical Devices  W1  Functional 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 MTRL 410 or BMEG 510. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 2:30 p.m. - 5:30 p.m.

BMEG_V 510-T3A  BMEG_V 510 T3A  Anatomy and Physiology with Applications to Biomedical Devices  W1  Functional 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 MTRL 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.

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 ELEC 421 or BMEG 521. ELEC 421 recommended. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 2:00 p.m. - 3:30 p.m.

BMEG_V 522-101  BMEG_V 522  101  Modern Biomedical Optical Imaging  W2  Advanced multimodal optical imaging concepts, fundamental optics, optical OCT theories, advanced modern OCT technologies, and OCT applications in clinical medicine, aesthetics, optometry, and surface optical imaging engineering. Credit will be granted for only one of MTRL 422 or BMEG 522. BMEG 421 or courses with 825542 recommended. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 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. Applications of information engineering to healthcare, including the management and use of patient health and well-being information. Credit will be granted for only one of MTRL 423 or BMEG 523. In Person Learning Thu Thu 5:00 p.m. - 6:30 p.m.

BMEG_V 523-T3A  BMEG_V 523 T3A  Clinical Informatics  W1  Fundamental concepts in clinical information systems, decision support, and mobile health. Applications of information engineering to healthcare, including the management and use of patient health and well-being information. Credit will be granted for only one of MTRL 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 genomic data. Genome architecture, mapability, repeat elements, CCRF-sea, open chromatin, histone modifications, single cell technologies, genome-wide association studies, statistical analysis, computational analysis, data processing. Credit will be granted for only one of MTRL 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 550-101  BMEG_V 550  101  Biomedical Engineering Technology  W2  This course is not eligible for Credit/D/Fail grading. [3-3'-0]

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_201  BMEG_V 554 B  B_201  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_201  BMEG_V 554 B  B_201  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_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

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<td>BOTA_V 500-001</td>
<td>Thesis and Journal Seminar</td>
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<td>BOTA_V 501-001</td>
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<td>BOTA_V 590-001</td>
<td>Internship</td>
<td>W1</td>
<td>4 months for M.Sc.</td>
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<td>BOTA_V 590-002</td>
<td>Internship</td>
<td>W1-2</td>
<td>4 months for M.Sc.</td>
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<td>BOTA_V 600-001</td>
<td>Internship</td>
<td>W1</td>
<td>6 months for Ph.D. students.</td>
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<td>BOTA_V 600-002</td>
<td>Internship</td>
<td>W1-2</td>
<td>6 months for Ph.D. students.</td>
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<td>BUSI_V 100-001</td>
<td>Micro Foundations of Real Estate Economics</td>
<td>W1</td>
<td>Basic principles of microeconomics and application to current economic problems.</td>
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<td>BUSI_V 100-002</td>
<td>Micro Foundations of Real Estate Economics</td>
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<td>Basic principles of microeconomics and application to current economic problems.</td>
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<td>BUSI_V 100-02T</td>
<td>Micro Foundations of Real Estate Economics</td>
<td>W1-2</td>
<td>Basic principles of microeconomics and application to current economic problems.</td>
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<td>BUSI_V 101-001</td>
<td>Capital Markets and Real Estate</td>
<td>W1</td>
<td>Basic principles of macroeconomics and application to current economic problems. Prerequisite: BUSI 100.</td>
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<td>BUSI_V 101-002</td>
<td>Capital Markets and Real Estate</td>
<td>W2</td>
<td>Basic principles of macroeconomics and application to current economic problems. Prerequisite: BUSI 100.</td>
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<td>Capital Markets and Real Estate</td>
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<td>Capital Markets and Real Estate</td>
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<td>BUSI_V 111-001</td>
<td>British Columbia Real Estate Law and Real Estate Ethics</td>
<td>W1</td>
<td>Canadian legal system and contract law and detailed aspects of real estate law as it applies in British Columbia.</td>
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<td>BUSI_V 111-002</td>
<td>British Columbia Real Estate Law and Real Estate Ethics</td>
<td>W2</td>
<td>Canadian legal system and contract law and detailed aspects of real estate law as it applies in British Columbia.</td>
<td>Online Learning</td>
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<td>BUSI_V 112-001</td>
<td>Canadian Real Property Law and Real Estate Ethics</td>
<td>W1</td>
<td>Canadian legal system and contract law and detailed aspects of real estate law as it applies across Canada.</td>
<td>Online Learning</td>
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BUSI_V 112-002 112 002 Canadian Real Property Law and Real Estate Ethics W2 Online Learning Arranged Arranged

BUSI_V 121-001 121 001 Foundations of Real Estate Mathematics W1 Online Learning Arranged Arranged

BUSI_V 121-002 121 002 Foundations of Real Estate Mathematics W2 Online Learning Arranged Arranged

BUSI_V 221-001 221 001 Real Estate Finance in a Canadian Context W1 Online Learning Arranged Arranged

BUSI_V 221-002 221 002 Real Estate Finance in a Canadian Context W2 Online Learning Arranged Arranged

BUSI_V 293-001 293 001 Real Estate Finance in a Canadian Context W1 Arranged

BUSI_V 295-203 295 203 Introductory Financial Accounting W1 Online Learning Arranged Arranged

BUSI_V 294-202 294 202 Introductory Financial Accounting W2 Hybrid Learning Wed 6:30 p.m. - 9:30 p.m.

BUSI_V 220-001 220 001 Application of Statistics in Business W1 Online Learning Thu 6:30 p.m. - 9:30 p.m.

BUSI_V 220-002 220 002 Application of Statistics in Business W2 Hybrid Learning Mon 6:30 p.m. - 9:30 p.m.

BUSI_V 220-001 220 001 Application of Statistics in Business W1 Online Learning Thu 6:30 p.m. - 9:30 p.m.

BUSI_V 220-002 220 002 Application of Statistics in Business W2 Hybrid Learning Wed 6:30 p.m. - 9:30 p.m.

BUSI_V 290-101 290 101 Introductory Financial Accounting W1 Online Learning Mon 6:30 p.m. - 9:30 p.m.

BUSI_V 290-102 290 102 Introductory Financial Accounting W1 Online Learning Wed 12:00 p.m. - 1:30 p.m.

BUSI_V 290-201 290 201 Introductory Financial Accounting W2 Hybrid Learning Mon 6:30 p.m. - 9:30 p.m.

BUSI_V 290-202 290 202 Introductory Financial Accounting W2 Hybrid Learning Tue Thu 12:00 p.m. - 1:30 p.m.

BUSI_V 296-101 296 101 Introductory Management Accounting W1 In Person Learning Tue 6:30 p.m. - 9:30 p.m.

BUSI_V 296-102 296 102 Introductory Management Accounting W1 In Person Learning Tue 6:30 p.m. - 9:30 p.m.

BUSI_V 296-201 296 201 Introductory Management Accounting W2 In Person Learning Mon 6:30 p.m. - 9:30 p.m.

BUSI_V 296-202 296 202 Introductory Management Accounting W2 Hybrid Learning Wed 6:30 p.m. - 9:30 p.m.

BUSI_V 295-101 295 101 Business Economics W1 In Person Learning Arranged

BUSI_V 295-102 295 102 Business Economics W1 In Person Learning Arranged

BUSI_V 295-103 295 103 Business Economics W1 In Person Learning Arranged

BUSI_V 295-201 295 201 Business Economics W2 In Person Learning Arranged

BUSI_V 295-202 295 202 Business Economics W2 Hybrid Learning Tue 6:30 p.m. - 9:30 p.m.

BUSI_V 295-203 295 203 Business Economics W2 Hybrid Learning Mon 3:00 p.m. - 6:00 p.m.

BUSI_V 300-001 300 001 Urban and Real Estate Economics W1 Online Learning Arranged
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<td>Urban and Real Estate Economics</td>
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<td>BUSI 329-003</td>
<td>3.00</td>
<td>Principles of Organizational Behaviour</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<td>Principles of Organizational Behaviour</td>
<td>W2</td>
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<td>BUSI 330-001</td>
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<td>Foundations of Real Estate Appraisal</td>
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<td>3.00</td>
<td>Foundations of Real Estate Appraisal</td>
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<td>BUSI 331-001</td>
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<td>Real Estate Investment Analysis and Advanced Income Appraisal</td>
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<td>BUSI 331-002</td>
<td>3.00</td>
<td>Real Estate Investment Analysis and Advanced Income Appraisal</td>
<td>W2</td>
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<td>BUSI 235-001</td>
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<td>Information Systems</td>
<td>W1</td>
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<td>Information Systems</td>
<td>W1</td>
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<td>BUSI 235-201</td>
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<td>Information Systems</td>
<td>W2</td>
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<td>W2</td>
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<td>BUSI 236-001</td>
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<td>Statistical and Computer Applications in Valuation</td>
<td>W1</td>
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<td>Statistical and Computer Applications in Valuation</td>
<td>W2</td>
<td>Online Learning</td>
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<td>BUSI 352-001</td>
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<td>Case Studies in Residential Valuation</td>
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<td>W2</td>
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<td>BUSI 353-001</td>
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<td>Intermediate Financial Accounting</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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<td>BUSI 353-002</td>
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<td>Intermediate Financial Accounting</td>
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<td>Hybrid Learning</td>
<td>Mon</td>
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<td>BUSI 354-001</td>
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<td>Cost Accounting</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>6:30 p.m. - 9:30 p.m.</td>
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<td>BUSI 354-002</td>
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<td>Cost Accounting</td>
<td>W1</td>
<td>Hybrid Learning</td>
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<td>BUSI 354-201</td>
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<td>Cost Accounting</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
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BUSI V 355-202  BUSI V  355  202  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: BUSI 293 or equivalent.

Hybrid Learning  Mon 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: BUSI 293 or equivalent.

Hybrid 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: BUSI 293 or equivalent.

Hybrid Learning  Wed  6:30 p.m. - 9:30 p.m.

BUSI V 370-201  BUSI V  370  201  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.

In Person Learning  Thu  6:30 p.m. - 9:30 p.m.

BUSI V 370-202  BUSI V  370  202  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.

Hybrid Learning  Thu  6:30 p.m. - 9:30 p.m.

BUSI V 393-201  BUSI V  393  201  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 393-202  BUSI V  393  202  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 403-001  BUSI V  403  001  Commercial Property Analysis  W1  Underlying theory and techniques used in the design and construction of commercial properties.

Online Learning  Arranged  Arranged

BUSI V 403-002  BUSI V  403  002  Commercial Property Analysis  W2  Underlying theory and techniques used in the design and construction of commercial properties.

Online Learning  Arranged  Arranged

BUSI V 658-101  BUSI V  658  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 BUS 201, BUS 202, BUS 210.

In Person Learning  Mon  6:30 p.m. - 9:30 p.m.

BUSI V 658-202  BUSI V  658  202  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 BUS 201, BUS 202, BUS 210.

Hybrid Learning  Wed  3:00 p.m. - 6:00 p.m.

BUSI V 658-201  BUSI V  658  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 BUS 201, BUS 202, BUS 210.

In Person Learning  Tue  3:00 p.m. - 6:00 p.m.

BUSI V 658-202  BUSI V  658  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 BUS 201, BUS 202, BUS 210.

Hybrid Learning  Thu  6:30 p.m. - 9:30 p.m.
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<td>BUSI_V 441-001</td>
<td>Real Estate Management I</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>Examine the day-to-day issues which affect the practice of property management. Prerequisites: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 441-002</td>
<td>Real Estate Management I</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>Examine the day-to-day issues which affect the practice of property management. Prerequisites: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 442-001</td>
<td>Case Studies in Appraisal I</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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.</td>
</tr>
<tr>
<td>BUSI_V 442-002</td>
<td>Case Studies in Appraisal I</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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.</td>
</tr>
<tr>
<td>BUSI_V 443-001</td>
<td>Assessment Administration</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>Analysis of 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 353.</td>
</tr>
<tr>
<td>BUSI_V 443-002</td>
<td>Assessment Administration</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>Analysis of 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 353.</td>
</tr>
<tr>
<td>BUSI_V 444-001</td>
<td>Real Estate Development I</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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 353.</td>
</tr>
<tr>
<td>BUSI_V 444-002</td>
<td>Real Estate Development I</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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 353.</td>
</tr>
<tr>
<td>BUSI_V 445-001</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
<td>W</td>
<td>In Person Learning</td>
<td>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: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 445-002</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
<td>W</td>
<td>In Person Learning</td>
<td>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: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 446-001</td>
<td>Real Estate Development II</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 446-002</td>
<td>Real Estate Development II</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 450-001</td>
<td>Real Estate Business</td>
<td>3</td>
<td>W</td>
<td>In Person Learning</td>
<td>Examine the day-to-day issues which affect the practice of property management. Prerequisites: BUSI 330, BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 450-002</td>
<td>Real Estate Business</td>
<td>3</td>
<td>W</td>
<td>In Person Learning</td>
<td>Examine the day-to-day issues which affect the practice of property management. Prerequisites: BUSI 330, BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 451-001</td>
<td>Case Studies in Appraisal II</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 451-002</td>
<td>Case Studies in Appraisal II</td>
<td>3</td>
<td>W</td>
<td>Online Learning</td>
<td>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: BUSI 330. BUSI 353 recommended.</td>
</tr>
<tr>
<td>BUSI_V 452-001</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
<td>W</td>
<td>In Person Learning</td>
<td>A continuation of the examination of advanced financial accounting topics. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI 445. Recommended: BUSI 446.</td>
</tr>
</tbody>
</table>

*Note: All course descriptions are subject to change and should be confirmed with the university's official course catalog.*
BUSI 453-A_002  BUSI_V 453  102  Advanced Financial Accounting  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 330, BUSI 331, BUSI 393, BUSI 450.  Hybrid Learning  Thu  6:30 p.m. - 9:30 p.m.

BUSI 453-A_001  BUSI_V 453  201  Advanced Financial Accounting  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 330, BUSI 331, BUSI 393, BUSI 450.  In Person Learning  Thu  6:30 p.m. - 9:30 p.m.

BUSI 453-A_002  BUSI_V 453  202  Advanced Financial Accounting  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 330, BUSI 331, BUSI 393, BUSI 450.  Hybrid Learning  Tue  6:30 p.m. - 9:30 p.m.

BUSI 455-A_001  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 332, BUSI 450.  In Person Learning  Thu  6:30 p.m. - 9:30 p.m.

BUSI 455-A_002  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 332, BUSI 450.  Hybrid Learning  Tue  6:30 p.m. - 9:30 p.m.

BUSI 459-A_001  BUSI_V 459  101  Research and Report Writing  W1  Research and report writing skills. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.  Online Learning  Arranged  Arranged

BUSI 459-A_002  BUSI_V 459  201  Research and Report Writing  W2  Research and report writing skills. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.  Online Learning  Arranged  Arranged

BUSI 460-B_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. Prerequisites: BUSI 121, BUSI 331 and BUSI 444 are also recommended.  Online Learning  Arranged  Arranged

BUSI 460-B_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. Prerequisites: BUSI 121, BUSI 331 and BUSI 444 are also recommended.  Online Learning  Arranged  Arranged

BUSI 465-A_001  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 330, BUSI 295.  In Person Learning  Mon  6:00 p.m. - 9:00 p.m.

BUSI 465-A_002  BUSI_V 465  102  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 330, BUSI 295.  In Person Learning  Mon  6:00 p.m. - 9:00 p.m.

BUSI 485-A_002  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 493-A_001  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. Prerequisites: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 330, BUSI 335, BUSI 353, BUSI 370, BUSI 393, BUSI 450.  In Person Learning  Wed  6:30 p.m. - 9:30 p.m.

BUSI 493-A_002  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. Prerequisites: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 330, BUSI 335, BUSI 353, BUSI 370, BUSI 393, BUSI 450.  In Person Learning  Wed  6:30 p.m. - 9:30 p.m.

BUSI 493-A_001  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. Prerequisites: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 330, BUSI 335, BUSI 353, BUSI 370, BUSI 393, BUSI 450.  Hybrid Learning  Thu  6:30 p.m. - 9:30 p.m.

BUSI 497-B_001  BUSI_V 497  001  Guided Case Study in Agricultural Real Estate  W1-2  An agriculturally focused version of BUSI 497. Prerequisites: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.  Online Learning  Arranged  Arranged

BUSI 497-B_002  BUSI_V 497  002  Guided Case Study in Agricultural Real Estate  W1-2  An agriculturally focused version of BUSI 497. Prerequisites: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.  Online Learning  Arranged  Arranged

BUSI 499-A_001  BUSI_V 499  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. Prerequisites: All of BUSI 291, BUSI 331, BUSI 442, BUSI 452.  Online Learning  Arranged  Arranged

BUSI 499-A_002  BUSI_V 499  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. Prerequisites: All of BUSI 291, BUSI 331, BUSI 442, BUSI 452.  Online Learning  Arranged  Arranged
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Component</th>
<th>Schedule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 100-021</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-022</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-023</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-030</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-034</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-036</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-039</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-041</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-042</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CAP 100-044</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 6:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

Analysis of and practice in academic research and writing in the social sciences and the humanities. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 101. Equivalency: ASTU 101.

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.

Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 101. Equivalency: ASTU 101.

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Analysis of and practice in academic research and writing in the social sciences and the humanities. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

Analysis of and practice in academic research and writing in the social sciences and the humanities. Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 101 or ASTU 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 12:00 p.m. - 2:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 12:00 p.m. - 2:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 3:00 p.m. - 4:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 4:00 p.m. - 5:00 p.m.

Introduction to Reading and Research in Literary, Cultural, and Media Studies W2 Applications of research and writing skills in the context of Berryan, 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 101. Equivalency: ASTU 101. In Person Learning Mon Wed Fri 5:00 p.m. - 6:00 p.m.
In Person Learning
Laboratory in Human Physiology

Cooperative Work Placement III
11:00 a.m. - 12:00 p.m.

Introduction to Microscopic Human Anatomy
W1
Oxygen system development, structure and function at the microscopic level. (3-0-2) Prerequisite: One of BIOC 101, BIOC 101L. BIOL 200 is recommended.

Cooperative Work Placement I
W1
Approved and supervised relevant work experience in an industrial, academic, or governmental 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 206, CAPS 303 and one of CAPS 204, CAPS 205.

Cell Biology and Human Disease
W1
The control and integration of cardio-vascular function in mammals. Intended for Honours and major 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 its equivalent. Permission of the course director is also required.

Directed Studies in Physiology
Thu
Written report and presentation on an independent investigation approved by the department head.

Human Renal and Gastrointestinal Physiology
Sun
Outlines major discoveries and current advancements that are revolutionizing our understanding of organs systems function with particular reference to mammalian and human physiology. See credit exclusion list: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Credit will only be granted for one of CAPS 301 or CAPS 302. Credit will only be granted for one of CAPS 301 or CAPS 306. [3-0-0] Prerequisite: Either (a) SCIE 101 or (b) all of BIOC 112, BIOC 121 and one of MATH 100, MATH 101, MATH 105, MATH 121; or one of PHYS 101, PHYS 101L, PHYS 105, PHYS 107, PHYS 202 and one of CHEM 210, CHEM 213, CHEM 260.

Introducing to Gross Human Anatomy
W2
Structure and function of body regions at the microscopic level. (3-0-2) Prerequisite: One of BIOC 121, BIOC 101L, WI 100, WI 101.

Directed Studies in Physiology
Tue Thu
Written report and presentation on an independent investigation approved by the department head.

Mammalian Cardiovascular and Respiratory Physiology
Fri
The control and integration of cardio-pulmonary function in mammals. Intended for Honours and major 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 its equivalent. Permission of the course director is also required.

Mammalian Cardiovascular and Respiratory Physiology
W1
Control of human renal and gastrointestinal systems. Role of 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 301, CAPS 306 or (b) one of BIOC 101, BIOC 101L.

Neural systems function with particular reference to mammalian and human physiology. See credit exclusion list: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Credit will only be granted for one of CAPS 301 or CAPS 302. Credit will only be granted for one of CAPS 301 or CAPS 306. [3-0-0] Prerequisite: Either (a) SCIE 101 or (b) all of BIOC 112, BIOC 121 and one of MATH 100, MATH 101, MATH 105, MATH 121; or one of PHYS 101, PHYS 101L, PHYS 105, PHYS 107, PHYS 202 and one of CHEM 210, CHEM 213, CHEM 260.

Neural systems function with particular reference to mammalian and human physiology. See credit exclusion list: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Credit will only be granted for one of CAPS 301 or CAPS 302. Credit will only be granted for one of CAPS 301 or CAPS 306. [3-0-0] Prerequisite: Either (a) SCIE 101 or (b) all of BIOC 112, BIOC 121 and one of MATH 100, MATH 101, MATH 105, MATH 121; or one of PHYS 101, PHYS 101L, PHYS 105, PHYS 107, PHYS 202 and one of CHEM 210, CHEM 213, CHEM 260.

Methods in Cardiovascular and Respiratory Physiology
W1
Membrane and Mechanisms of Respiratory Physiology
W1
Membrane and Mechanics of the Respiratory System.

Human Renal and Gastrointestinal Physiology
Sun
Membrane and Mechanics of the Respiratory System.

Neural systems function with particular reference to mammalian and human physiology. See credit exclusion list: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Credit will only be granted for one of CAPS 301 or CAPS 302. Credit will only be granted for one of CAPS 301 or CAPS 306. [3-0-0] Prerequisite: Either (a) SCIE 101 or (b) all of BIOC 112, BIOC 121 and one of MATH 100, MATH 101, MATH 105, MATH 121; or one of PHYS 101, PHYS 101L, PHYS 105, PHYS 107, PHYS 202 and one of CHEM 210, CHEM 213, CHEM 260.

Human Physiology
Mon Wed Fri
""
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Type</th>
<th>Schedule</th>
<th>Description</th>
<th>Grading Model</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
<td>CAPS_V 699-001</td>
<td>Cooperative Work Placement IV</td>
<td>W1</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 499. Approvals 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.).</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CAPS_V 699-002</td>
<td>Cooperative Work Placement IV</td>
<td>W2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: CAPS 499. Approvals 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.).</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CER_V 501-62A</td>
<td>Living Inquiry in Learning Communities</td>
<td>W2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CER_V 699-001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CER_V 699-002</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CER_V 699-063</td>
<td>Seminar in Interdisciplinary Frameworks in Museums and Curatorial Studies</td>
<td>W1</td>
<td>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 historical culture as debates about cultural property intensity. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Minor</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-064</td>
<td>Seminar in Contemporary Controversial Issues for Museums and Curatorial Practice</td>
<td>W2</td>
<td>Practical on-site team to produce exhibitions or other public displays in a museum, gallery, or alternative situations, offering opportunities for comparison, collaboration, and interdisciplinary studies. 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.</td>
<td>In Person Learning</td>
<td>Minor</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-065</td>
<td>Graduate Practicum and Major Paper in Curatorial Studies</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canada, including cultural, political, historical, and economic dimensions.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-066</td>
<td>Graduate Practicum and Major Paper in Curatorial Studies</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canada, including cultural, political, historical, and economic dimensions.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-067</td>
<td>Introduction to Canada</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canada, including cultural, political, historical, and economic dimensions.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-068</td>
<td>Introduction to Canada</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canada, including cultural, political, historical, and economic dimensions.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-069</td>
<td>Introduction to Canada</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canada, including cultural, political, historical, and economic dimensions.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-070</td>
<td>Introduction to Canada</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canada, including cultural, political, historical, and economic dimensions.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-071</td>
<td>Canadian Studies</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canadian studies. Required of all Canadian Studies majors.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-072</td>
<td>Canadian Studies</td>
<td>W1</td>
<td>An interdisciplinary introduction to Canadian studies. Required of all Canadian Studies majors.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>CER_V 699-073</td>
<td>Senior Senior in Canadian Studies</td>
<td>W2</td>
<td>The Canadian experience from a variety of disciplinary perspectives. Offered by the McLean Chair in Canadian Studies. Required of all Canadian Studies majors.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>CEEN_V 650-201</td>
<td>Energy System Fundamentals</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CEEN_V 652-201</td>
<td>Energy and the Environment</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td></td>
</tr>
<tr>
<td>CEEN_V 653-201</td>
<td>Energy Policy</td>
<td>W1</td>
<td>Energy policy process and governance. Sustainable energy as a social and political challenge. Formal government structures and processes, 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.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td></td>
</tr>
<tr>
<td>CEEN_V 654-201</td>
<td>Energy Policy</td>
<td>W1</td>
<td>Energy policy process and governance. Sustainable energy as a social and political challenge. Formal government structures and processes, 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.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Section</td>
<td>Type of Learning</td>
<td>Credits</td>
<td>Time</td>
<td>Days</td>
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</tr>
<tr>
<td>CENG_V 550-101</td>
<td>Energy Efficiency and Conservation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.101</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Wed</td>
</tr>
<tr>
<td>CENG_V 550-701</td>
<td>Energy Efficiency and Conservation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.101</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Wed</td>
</tr>
<tr>
<td>CEEN_V 501-001</td>
<td>Cell and Developmental Biology: Research Literature</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>CEEN_V 502-001</td>
<td>Current Topics in Developmental Biology</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Mon, Thu</td>
</tr>
<tr>
<td>CELL_V 510-001</td>
<td>Current Topics in Cellular Communication</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>Mon</td>
</tr>
<tr>
<td>CELL_V 504-001</td>
<td>Current Topics in Epitope Recall and Cell Mobility</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>Fri</td>
</tr>
<tr>
<td>CELL_V 506-001</td>
<td>Current Topics in Intracellular Trafficking</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>Fri</td>
</tr>
<tr>
<td>CELL_V 507-001</td>
<td>Special Techniques and Protocols in Cell and Developmental Biology</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>Fri</td>
</tr>
<tr>
<td>CELL_V 508-001</td>
<td>Molecular Genetic Analysis</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>Fri</td>
</tr>
<tr>
<td>CELL_V 509-001</td>
<td>Cell Systems Biology</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.001</td>
<td>1:30 p.m. - 3:30 p.m.</td>
<td>Thu</td>
</tr>
<tr>
<td>CELL_V 549-001</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.003</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>CELL_V 549-002</td>
<td>M.Sc. Thesis</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.003</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>CELL_V 549-003</td>
<td>M.Sc. Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>0.003</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>CELL_V 649-001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.003</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>CELL_V 649-002</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>In Person Learning</td>
<td>0.003</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>CENG_V 204-101</td>
<td>Canadian Monuments to Central and Eastern European History</td>
<td>W1</td>
<td>Multi-access Learning</td>
<td>0.101</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>CENG_V 201-101</td>
<td>Contrasts and Conflicts: The Cultures of Central, Eastern and Northern Europe (in English)</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.101</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>CENG_V 201-102</td>
<td>Contrasts and Conflicts: The Cultures of Central, Eastern and Northern Europe (in English)</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.102</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>CENG_V 201-201</td>
<td>Contrasts and Conflicts: The Cultures of Central, Eastern and Northern Europe (in English)</td>
<td>W2</td>
<td>Multi-access Learning</td>
<td>0.201</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>CENG_V 202-101</td>
<td>Great Works of Literature from Central, Eastern and Northern Europe (in English)</td>
<td>W1</td>
<td>Online Learning</td>
<td>0.101</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Thu</td>
</tr>
<tr>
<td>CENG_V 202-102</td>
<td>Great Works of Literature from Central, Eastern and Northern Europe (in English)</td>
<td>W1</td>
<td>In Person Learning</td>
<td>0.102</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Thu</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Format</td>
<td>Session Times</td>
<td></td>
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</tr>
<tr>
<td>CHBE 341-101</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 10:00 a.m. - 11:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-103</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-108</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-110</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-111</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-T1A</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-T1B</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-T1C</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 341-T1D</td>
<td>Material and Energy Balance</td>
<td>W1</td>
<td>All of CHEM 154, MATH 152</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 1:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 344-201</td>
<td>Chemical and Biological Engineering Thermodynamics I</td>
<td>W2</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 11:00 a.m. - 12:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 344-T2A</td>
<td>Chemical and Biological Engineering Thermodynamics I</td>
<td>W2</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 12:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 351-201</td>
<td>Transport Phenomena I</td>
<td>W2</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 10:00 a.m. - 11:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 351-T2A</td>
<td>Transport Phenomena I</td>
<td>W2</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 12:00 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 363-101</td>
<td>Introduction to Chemical and Biological Engineering Laboratory Practice</td>
<td>W1</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon 4:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 363-103</td>
<td>Introduction to Chemical and Biological Engineering Laboratory Practice</td>
<td>W1</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon 4:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 363-105</td>
<td>Introduction to Chemical and Biological Engineering Laboratory Practice</td>
<td>W1</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon 4:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 363-106</td>
<td>Introduction to Chemical and Biological Engineering Laboratory Practice</td>
<td>W1</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon 4:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 364-201</td>
<td>Chemical and Biological Engineering Laboratory</td>
<td>W2</td>
<td>Laboratory experiment in 2nd year Chemical and Biological Engineering This course is not eligible for Credit/D/Fail grading. [1-6-0]</td>
<td>In Person Learning</td>
<td>Wed 12:00 p.m. - 1:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 364-42A</td>
<td>Chemical and Biological Engineering Laboratory</td>
<td>W2</td>
<td>Laboratory experiment in 2nd year Chemical and Biological Engineering This course is not eligible for Credit/D/Fail grading. [1-6-0]</td>
<td>In Person Learning</td>
<td>Mon 2:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 364-42B</td>
<td>Chemical and Biological Engineering Laboratory</td>
<td>W2</td>
<td>Laboratory experiment in 2nd year Chemical and Biological Engineering This course is not eligible for Credit/D/Fail grading. [1-6-0]</td>
<td>In Person Learning</td>
<td>Mon 2:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 344-101</td>
<td>Introduction to Unit Operations</td>
<td>W1</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 11:00 a.m. - 12:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 344-T1A</td>
<td>Introduction to Unit Operations</td>
<td>W1</td>
<td>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]</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 2:00 p.m. - 3:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 345-201</td>
<td>Unit Operations</td>
<td>W2</td>
<td>Sludge- and sludge-like processes, including absorption, binary distillation and others such as extraction, drying, and liquefaction. This course is not eligible for Credit/D/Fail grading. [4-0-2]</td>
<td>In Person Learning</td>
<td>Tue-Thu 11:00 a.m. - 12:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>CHBE 345-T2A</td>
<td>Unit Operations</td>
<td>W2</td>
<td>Sludge- and sludge-like processes, including absorption, binary distillation and others such as extraction, drying, and liquefaction. This course is not eligible for Credit/D/Fail grading. [4-0-2]</td>
<td>In Person Learning</td>
<td>Mon-Thu Fri 2:00 p.m. - 6:00 p.m.</td>
<td></td>
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</tbody>
</table>
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. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CHBE 251, CIVL 215, MECH 286, MTRL 265, or third-year standing in CHBE.

In Person Learning  
Tue Thu  
8:00 a.m. - 9:30 a.m.

In Person Learning  
We  
4:00 p.m. - 5:00 p.m.

Theory and practice of computer flowsheeting in chemical plant design; hands-on use of modern process simulators, prediction of thermodynamic properties of fluids, behavior of single and multiphase systems. Design of unit operations. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE 241. Corequisite: All of CHBE 345, CHBE 451 for students enrolled in CHBE or third-year standing in ENS.

In Person Learning  
Wed  
9:30 a.m. - 11:00 a.m.

Theory and practice of computer flowsheeting in chemical plant design; hands-on use of modern process simulators, prediction of thermodynamic properties of fluids, behavior of single and multiphase systems. Design of unit operations. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE 241. Corequisite: All of CHBE 345, CHBE 451 for students enrolled in CHBE or third-year standing in ENS.

In Person Learning  
Wed  
2:00 p.m. - 4:00 p.m.

Biological processes engineering in the fields of biotechnology and biomedical engineering, enzymatic and cellular reactions, cell culture, bioreactor mass transport and process development; bioreactor design and operation. Credit will be granted for only one of CHBE 381, CHBE 581. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CHBE 221, BMEG 245 and one of MATH 102, MATH 103, MATH 105; third-year standing.

In Person Learning  
Fri  
10:30 a.m. - 11:50 a.m.

Biological processes engineering in the fields of biotechnology and biomedical engineering, enzymatic and cellular reactions, cell culture, bioreactor mass transport and process development; bioreactor design and operation. Credit will be granted for only one of CHBE 381, CHBE 581. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CHBE 221, BMEG 245 and one of MATH 102, MATH 103, MATH 105; third-year standing.

In Person Learning  
Mon (alternate weeks)  
2:00 p.m. - 6:00 p.m.

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 450, CHBE 502 or CHBE 503. 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.

Systems Biology and Metabonomics Engineering

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.

Modern biocatalyst technology, upstream and downstream processing of biotechnology products. Restricted to students in the joint degree in Biotechnology. [1-0-0]

In Person Learning  
Mon  
1:00 p.m. - 2:00 p.m.

Industrial Biotechnology Laboratory

In Person Learning  
Wed  
1:00 p.m. - 5:00 p.m.

Engineering Thermodynamics and Statistical Mechanics

In Person Learning Arranged  
Arranged

In Person Learning Arranged  
Arranged

In Person Learning  
Tue  
12:30 p.m. - 2:00 p.m.

Biological 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 450, CHBE 502 or CHBE 503. This course is not eligible for Credit/D/Fail grading. [3-0-0]

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.

Biological 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 450, CHBE 502 or CHBE 503. 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.

Biological 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 450, CHBE 502 or CHBE 503. This course is not eligible for Credit/D/Fail grading. [3-0-0]

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.

Biological 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 450, CHBE 502 or CHBE 503. This course is not eligible for Credit/D/Fail grading. [3-0-0]

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.

Biological 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 450, CHBE 502 or CHBE 503. This course is not eligible for Credit/D/Fail grading. [3-0-0]

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.

Biological 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 450, CHBE 502 or CHBE 503. This course is not eligible for Credit/D/Fail grading. [3-0-0]

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.

Biological 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 450, CHBE 502 or CHBE 503. This course is not eligible for Credit/D/Fail grading. [3-0-0]

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.

Biological 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 450, CHBE 502 or CHBE 503. This course is not eligible for Credit/D/Fail grading. [3-0-0]

In Person Learning  
Mon Fri  
11:00 a.m. - 12:00 p.m.
CHBE 454 ENG 201  
Chemical Process and Product Design  
W2  
6-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. [3-0-2] Prerequisite: All of CHBE 241, CHBE 245, CHBE 256, CHBE 374. Concurrency: All of CHBE 454, CHBE 471.

In Person Learning  
Arranged  
Arranged

CHBE 454 TIA  
Chemical Process and Product Design  
W1-2  
6-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. [3-0-2] Prerequisite: All of CHBE 241, CHBE 245, CHBE 256, CHBE 374. Concurrency: All of CHBE 454, CHBE 471.

In Person Learning  
F  
3:00 p.m. - 5:00 p.m.

CHBE 454 TIA  
Chemical Process and Product Design  
W1-2  
6-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. [3-0-2] Prerequisite: All of CHBE 241, CHBE 245, CHBE 256, CHBE 374. Concurrency: All of CHBE 454, CHBE 471.

In Person Learning  
Arranged  
Arranged

CHBE 454 TIA  
Chemical Process and Product Design  
W2  
6-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. [3-0-2] Prerequisite: All of CHBE 241, CHBE 245, CHBE 256, CHBE 374. Concurrency: All of CHBE 454, CHBE 471.

In Person Learning  
Arranged  
Arranged

CHBE 456 101  
Heterogeneous Catalysis and Advanced Reactor Design  
W1  
101  
Definition of heterogeneous catalytic, properties of catalysts, kinetics of catalytic reactions, ideal heterogeneous reactor; non-thermal reactor design; mass and heat transfer effects in heterogeneous reactors. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CHBE 230, CHBE 232, CHBE 255.

In Person Learning  
Mon Wed Fri  
9:00 a.m. - 10:00 a.m.

CHBE 456 TIA  
Heterogeneous Catalysis and Advanced Reactor Design  
W1  
T1A  
101  
Definition of heterogeneous catalytic, properties of catalysts, kinetics of catalytic reactions, ideal heterogeneous reactor; non-thermal reactor design; mass and heat transfer effects in heterogeneous reactors. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of CHBE 230, CHBE 232, CHBE 255.

In Person Learning  
Wed (Alternate weeks)  
2:00 p.m. - 3:00 p.m.

CHBE 457 101  
Process Synthesis  
W1  
101  
Process Synthesis  
W1  
101  
Process Synthesis  
W1  
101  
Process Synthesis  
W1  
101

CHBE 457 TIA  
Process Synthesis  
W1  
T1A  
101  
Process Synthesis  
W1  
T1A  
101

CHBE 459 201  
Chemical and Biological Engineering Economics  
W2  
201  
Chemical and Biological Engineering Economics  
W2  
201

CHBE 460 001  
Chemical and Biological Engineering Laboratories  
W1-2  
101  
Chemical and Biological Engineering Laboratories  
W1-2  
101

CHBE 470 101  
Chemical Process Engineering  
W1  
101  
Chemical Process Engineering  
W2  
101  
Chemical Process Engineering  
W1  
101  
Chemical Process Engineering  
W2  
101

CHBE 470 TIA  
Chemical Process Engineering  
W1  
T1A  
101  
Chemical Process Engineering  
W1  
T1A  
101

CHBE 472 201  
Technologies for Human and Environmental Health  
W2  
201

CHBE 473 201  
Environmental Engineering and Sustainability Leadership  
W2  
201

CHBE 474 101  
Process Control Engineering  
W1  
101  
Process Control Engineering  
W1  
101  
Process Control Engineering  
W1  
101

CHBE 474 TIA  
Process Control Engineering  
W1  
T1A  
101  
Process Control Engineering  
W1  
T1A  
101

CHBE 475 101  
Advanced Process Engineering and Simulation  
W1  
101  
Advanced Process Engineering and Simulation  
W1  
101  
Advanced Process Engineering and Simulation  
W1  
101

CHBE 476 101  
Advanced Process Engineering and Simulation  
W1  
101  
Advanced Process Engineering and Simulation  
W1  
101  
Advanced Process Engineering and Simulation  
W1  
101

CHBE 477 201  
Fast Cell and Electrochemical Engineering  
W2  
201

CHBE 478 300  
Process Control Engineering  
W1  
300

CHBE 484 101  
Fundamentals of Cutting-edge Biomanufacturing Technologies: Commercial Production of Biopharmaceuticals, Vaccines, and Biologically Derived Drugs  
W1-2

CHBE 486 001  
Chemical and Biological Engineering Laboratories  
W1-2

CHBE 490 001  
Experiments in Unit Operations Related to Process, Environmental and Biological Engineering  
W1-2

CHBE 492 201  
Process Control Engineering  
W1-2

CHBE 493 201  
Environmental Engineering and Sustainability Leadership  
W2

CHBE 546 001  
Chemical and Biological Engineering Laboratories  
W2
CHBE 485-101
485
201
Air Pollution Prevention and Air Quality Engineering
W1

Fate of air-borne 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, GHGs, NOx, VOCs, and CO2. Credit will be granted for only one of CHBE 485, CHBE 475 or CHBE 185. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHBE 241 or one of CHBE 244, MTRL 263.

CHBE 486-101
486
201
Waste Mitigation and Processing for Resource Recovery
W2

Outline of the physics and chemistry of interfaces; discussion of the part played by surface effects in technological processes. Credit will be granted for only one of CHBE 357, CHEM 467, CHBE 587, ENEE 449 or FOOD 510. Recommended Prerequisite: One of CHBE 241, CHEM 254 or CHBE 256. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHBE 241 or one of CHBE 244, MTRL 263. Credit will be granted for only one of CHBE 365 or CHBE 387.

CHBE 487-101
487
201
Interfacial Phenomena
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 487 or CHBE 587. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CHBE 244, MTRL 252 and one of CHBE 251, CHEM 254 or MTRL 263. Credit will be granted for only one of CHBE 487 or CHBE 587.

CHBE 488-201
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. [3-0-0] Prerequisite: One of CHBE 246, MTRL 252 and one of CHBE 251, CHEM 254 or MTRL 263. Credit will be granted for only one of CHBE 488 or CHBE 588. Credit will be granted for only one of CHBE 488 or CHBE 588.

CHBE 491-T1A
491
T1A
Thesis Proposal
W1

Thesis search, 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. [3-0-0] Prerequisite: CHBE 381, CHBE 382.

CHBE 492-201
492
201
Thesis
W2

Research project under the direction of a staff member. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CHBE490].

CHBE 493-101
493
201
Thesis Proposal-Environmental Topic
W1

Environmental engineering research topic. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHBE493.

CHBE 494-201
494
201
Thesis-Environmental Topic
W2

Environmental engineering research topic. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHBE494.

CHBE 495-101
495
201
Thesis Proposal-Biotechnology Topic
W1

Biotechnology engineering research topic. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHBE495.

CHBE 496-201
496
201
Thesis-Biotechnology Topic
W2

Biotechnology engineering research topic. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHBE496.

CHBE 497-A_001
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 Thu 12:30 p.m. - 2:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Format</th>
<th>Description</th>
<th>Grade Options</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHBE_V 567</td>
<td>Biomass Fractionation Chemistry</td>
<td>3</td>
<td>In Person Learning</td>
<td>Extraction of soluble compounds from cellulosic biomass. Chemical and biochemical processes in production of pulp. Bacterial fiber production from woody and herbaceous biomass. Production of reactive intermediates. Credit will be granted for only one of CHBE 467, CHBE 567 or CHBE 540.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHBE_V 555</td>
<td>Introduction to Chemical Engineering</td>
<td>3</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Supervisor and instructor approval required.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHBE_V 549</td>
<td>Master's Thesis for M.Sc.</td>
<td>6</td>
<td>Arranged</td>
<td>A discussion of some aspects of modern Chemical Engineering. Subject matter varies each year. This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHBE_V 548</td>
<td>Optimization Methods</td>
<td>3</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Supervisor and instructor approval required.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHBE_V 550</td>
<td>Mathematical Operations in Chemical</td>
<td>3</td>
<td>In Person Learning</td>
<td>Prediction of velocity, temperature, and concentration profiles for flowing fluids; catalytic concepts and analogies in momentum, heat, and mass transport; streamline flow and turbulence. Credit will be granted for only one of CHBE 550 or CHBE 551.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHBE_V 551</td>
<td>Biocatalytic Reactions and Catalytic</td>
<td>3</td>
<td>In Person Learning</td>
<td>Modern bioreactor technology, upstream and downstream processing of biotechnology products. Credit will be granted for only one of CHBE 550 or CHBE 419. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHBE_V 552</td>
<td>Mathematical Operations in Chemical</td>
<td>3</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Supervisor and instructor approval required.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHBE_V 553</td>
<td>Mathematical Operations in Chemical</td>
<td>3</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Supervisor and instructor approval required.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
</tbody>
</table>
In Person Learning

CHBE_V 565-101
Advanced Process Control

W1
Discipline: Chemical system modeling, model-based predictive control, predictive controller design, analysis of design parameters, controller stability, robustness and performance analysis. Techniques currently developed 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
Technologies for Human and Environmental Health

W2
Fundamentals of cutting-edge biotechnologies with an emphasis on applications in health and the environment. Concepts and calculations involving: separations, mass transfer, reaction kinetics, mass, 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 574-201
Environmental Engineering and Sustainability Leadership

W2
Topics may include: life cycle assessment, circular economy, system dynamics modeling, design thinking, systems thinking, traditional ecological knowledge, adaptation and evolutions: leadership and relationship. Credit will be granted for only one of CHBE 374 or CHBE 574. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon
3:00 p.m. - 6:00 p.m.

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 issues using environmental impact resource case. 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
Air Pollution Prevention and Air Quality Engineering

W1
Fate of air-born chemicals and the associated impacts of air pollutants: on health, visibility, some 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 C02. Credit will be granted for only one of CHBE 485, CHBE 486, 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
Air Pollution Prevention and Air Quality Engineering

W1
Outline of the physics and chemistry of interfaces; discussion of the part playability surface effects in technical processes. Credit will be granted for only one of CHBE 357, CHBE 485, CHBE 487, FAN 459 or FOOD 315.

In Person Learning Wed (alternate weeks)
2:00 p.m. - 5:00 p.m.

CHBE_V 587-201
Interfacial Phenomena

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 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. - 6:00 p.m.

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 586-001
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 586-101
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 586-201
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 587-001
M.A.Sc. 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. - 5:00 p.m.

CHBE_V 588-001
M.Eng. 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 588-101
M.Eng. Seminar

W1-2
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 588-201
M.Eng. Seminar

W1-2
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 589-001
Thesis

W1-2
For M.A.Sc. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged
Arranged

CHBE_V 589-101
Thesis

W1-2
For M.A.Sc. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged
Arranged

CHBE_V 589-201
Thesis

W2
For M.A.Sc. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged
Arranged

CHBE_V 587-001
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. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Type</th>
<th>Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Prerequisite</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CHEM_V 100-223</td>
<td>101</td>
<td>W2</td>
<td>Foundations of Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 111-112</td>
<td>111</td>
<td>W1</td>
<td>Structure, Bonding, and Equilibrium in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 111-112</td>
<td>111</td>
<td>W1</td>
<td>Structure, Bonding, and Equilibrium in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 111-106</td>
<td>111</td>
<td>W1</td>
<td>Structure, Bonding, and Equilibrium in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 111-107</td>
<td>111</td>
<td>W1</td>
<td>Structure, Bonding, and Equilibrium in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Arranged</td>
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<tr>
<td>CHEM_V 111-105</td>
<td>111</td>
<td>W1</td>
<td>Structure, Bonding, and Equilibrium in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 111-101</td>
<td>111</td>
<td>W1</td>
<td>Structure, Bonding, and Equilibrium in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 121-101</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
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<tr>
<td>CHEM_V 121-102</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 121-103</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 121-110</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 121-111</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 121-122</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 121-133</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHEM_V 121-199</td>
<td>121</td>
<td>W1</td>
<td>Structure and Bonding in Chemistry</td>
<td>3-3-0</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Arranged</td>
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</tbody>
</table>

Courses are available in In Person Learning. Permission of the department head is required for Credit/D/Fail grading.
Fundamentals of bonding theories and structural chemistry, with applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 12, CHEM 100. Equivalency: CHEM141
CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of bonding theories and structural chemistry, with applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 12, CHEM 100. Equivalency: CHEM 141

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.

CHEM 121, CHEM 141.
Fundamentals of chemical reactivity: thermodynamics; kinetics; organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 123-161</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Thu 9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>CHEM 123-162</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Thu 9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>CHEM 123-171</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>CHEM 123-172</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>CHEM 123-181</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>CHEM 123-182</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>CHEM 123-191</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Fri 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>CHEM 123-192</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>Fundamentals of chemical reactivity: thermodynamics, kinetics, organic chemistry, including stereochemistry; applications relevant to modern society. [3-3-0] Prerequisite: One of CHEM 111, CHEM 121, CHEM 141. In Person Learning Fri 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>CHEM 135-RMT</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-102</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-105</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-106</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-107</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-108</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-109</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
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<tr>
<td>CHEM 135-112</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
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<tr>
<td>CHEM 135-123</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-125</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-126</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-127</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-128</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 135-129</td>
<td>Introductory Chemical Laboratory II</td>
<td>In Person Learning</td>
<td>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</td>
</tr>
<tr>
<td>CHEM 141-101</td>
<td>Chemical Bonding, Molecular Structure and Properties for Lab Sciences</td>
<td>In Person Learning</td>
<td>Bonding theories, their predictions, experimental tests, and consequences regarding chemical structure and observable properties. Applications relevant to modern society. Restricted to students in the Faculty of Science. [3-3-0] Prerequisite: One of CHEM 111, CHEM 103. In Person Learning Mon-Wed Fri 12:00 p.m. - 1:00 p.m.</td>
</tr>
</tbody>
</table>
Chemical Bonding, Molecular Structure and Properties for Lab Sciences

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: CHEM201

Introduction to Organic Chemistry

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 120, Chem 121 or SCI 101.
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 200 or CHEM 223, CHEM 225 or CHEM 233, 231. [3-0-0] 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.

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 200 or CHEM 223, CHEM 225 or CHEM 233, 231. [3-0-0] 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.

Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 130, CHEM 135 or (c) SCIE 001.

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]

CHEM 201-107 CHEM_V 201 L07 Introduction to Organic Chemistry W1

8:00 a.m. - 9:30 a.m.

In Person Learning

CHEM 201-108 CHEM_V 201 L08 Introduction to Organic Chemistry W1

9:30 a.m. - 12:00 p.m.

In Person Learning

CHEM 201-109 CHEM_V 201 L09 Introduction to Organic Chemistry W1

12:00 p.m. - 1:00 p.m.

In Person Learning
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.
An introduction to the principles and techniques in the synthetic organic chemistry laboratory. [3-0-0] Prerequisite: CHEM 123 and one of CHEM 135, CHEM 136.

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.

An introduction to the principles and techniques in the analytical chemistry laboratory. [3-0-0] Prerequisite: CHEM 210 and one of CHEM 123, CHEM 135. This course is not eligible for Credit/D/Fail grading.

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. Students should consult the Credit Exclusion Bond List for credit exclusions relating to second-year organic chemistry courses. [3-0-0] Prerequisite: CHEM 210.

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 210 and one of CHEM 123, CHEM 135 or CHEM 208.

Chemical reactivity of inorganic systems: oxidation/reduction chemistry; multiply-bonded systems; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Students should consult the Credit Exclusion Bond List for credit exclusions relating to second-year organic chemistry courses. [3-0-0] Prerequisite: CHEM 210.

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.
CHEM 225-109 CHEM V 225 109 Introductory Synthetic Chemical Laboratory W1 An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. (3-0-0) Prerequisite: One of CHEM 125, CHEM 126.

CHEM 225-103 CHEM V 225 103 Organic Chemistry for the Biological Sciences W1 Reactions and properties of carbonyl compounds, carboxylic acids, 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 126, SCIE 001.

CHEM 225-130 CHEM V 225 130 Organic Chemistry for the Biological Sciences W1 Reactions and properties of carbonyl compounds, carboxylic acids, 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 126, SCIE 001.

CHEM 225-122 CHEM V 225 122 Organic Chemistry for the Biological Sciences W1 Reactions and properties of carbonyl compounds, carboxylic acids, 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 126, SCIE 001.

CHEM 225-123 CHEM V 225 123 Organic Chemistry for the Biological Sciences W1 Reactions and properties of carbonyl compounds, carboxylic acids, 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 126, SCIE 001.

CHEM 225-189 CHEM V 225 189 Organic Chemistry for the Biological Sciences W1 Reactions and properties of carbonyl compounds, carboxylic acids, 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 126, SCIE 001.

CHEM 225-112 CHEM V 225 112 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-113 CHEM V 225 113 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-114 CHEM V 225 114 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-115 CHEM V 225 115 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-116 CHEM V 225 116 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-117 CHEM V 225 117 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-118 CHEM V 225 118 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-119 CHEM V 225 119 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-122 CHEM V 225 122 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-123 CHEM V 225 123 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-124 CHEM V 225 124 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-125 CHEM V 225 125 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-126 CHEM V 225 126 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-127 CHEM V 225 127 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-128 CHEM V 225 128 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-129 CHEM V 225 129 Organic Chemistry Laboratory W2 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 225-167 CHEM V 225 167 Organic Chemistry Laboratory W1 Techniques of organic chemistry. To be taken in conjunction with, or in the term following, CHEM 233. Credit will be granted for only one of CHEM 233 or CHEM 203. (3-0-0) Prerequisite: One of CHEM 123, CHEM 126, SCIE 001. Corequisite: [CHEM233]

CHEM 226-106 CHEM V 226 106 Intermediate Synthetic Chemistry Laboratory W2 Techniques in synthetic organic and inorganic chemistry. Open only to students in Chemistry or Biochemistry. Prerequisite: Either (a) CHEM 223 or (b) all of CHEM 223, CHEM 225 or (c) all of CHEM 223, CHEM 233. Corequisite: CHEM 233. In Person Learning Arranged Arranged
CHEM_V 245-107 CHEM_V 245 L07 Intermediate Synthetic Chemistry Laboratory W2 Technique in synthetic organic and inorganic chemistry. Open only to students in Chemistry or Biochemistry specializations. This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: Either (a) CHEM 203 or (b) all of CHEM 223, CHEM 233, CHEM 253, Compulsory: CHEM 213. In Person Learning Thu 2:00 p.m. - 5:00 p.m.

CHEM_V 245-108 CHEM_V 245 L08 Intermediate Synthetic Chemistry Laboratory W2 Technique in synthetic organic and inorganic chemistry. Open only to students in Chemistry or Biochemistry specializations. This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: Either (a) CHEM 203 or (b) all of CHEM 223, CHEM 233, CHEM 253, Compulsory: CHEM 213. In Person Learning Fri 9:00 a.m. - 12:00 p.m.

CHEM_V 245-109 CHEM_V 245 L09 Intermediate Synthetic Chemistry Laboratory W2 Technique in synthetic organic and inorganic chemistry. Open only to students in Chemistry or Biochemistry specializations. This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: Either (a) CHEM 203 or (b) all of CHEM 223, CHEM 233, CHEM 253, Compulsory: CHEM 213. In Person Learning Fri 2:00 p.m. - 5:00 p.m.

CHEM_V 245-703 CHEM_V 245 T50 Intermediate Synthetic Chemistry Laboratory W2 Technique in synthetic organic and inorganic chemistry. Open only to students in Chemistry or Biochemistry specializations. This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: Either (a) CHEM 203 or (b) all of CHEM 223, CHEM 233, CHEM 253, Compulsory: CHEM 213. In Person Learning Mon 9:00 a.m. - 10:00 a.m.

CHEM_V 245-2MT CHEM_V 245 WMT Intermediate Synthetic Chemistry Laboratory W2 Theory, design, and application of instrumental methods of chemical analysis including spectrometry, mass spectrometry, electrochemistry, and chemical reactions. [3-0-1] Prerequisite: One of CHEM 212, CHEM 218, CHEM 219, SCI 101. In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.

CHEM_V 250-109 CHEM_V 250 L09 Organic Chemistry for Engineers W1 A description of the properties and reactions of organic compounds. [3-0-1] Prerequisite: One of CHEM 122, CHEM 128, CHEM 134, SCI 101. In Person Learning Mon Wed Fri 9:00 a.m. - 12:00 p.m.

CHEM_V 300-109 CHEM_V 300 L09 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. [3-0-0] Prerequisite: Third year standing In Person Learning Tue 12:30 p.m. - 2:30 p.m.

CHEM_V 300-110 CHEM_V 300 L10 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. [3-0-0] Prerequisite: Third year standing In Person Learning Mon 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. [3-0-0] 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. [3-0-0] Prerequisite: Third year standing In Person Learning Mon Wed Fri 12:30 p.m. - 2:30 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. [3-0-0] 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. [3-0-0] Prerequisite: Third year standing In Person Learning Arranged Arranged

CHEM_V 301-109 CHEM_V 301 L09 Aqueous Environmental Chemistry W1 Properties and composition of natural waters, including gas and solid equilibria, pH and acidification, radiochemistry, distribution, reactivity, corrosion, ion exchange, colloid and micellar transformation. [3-0-0] Prerequisite: One of CHEM 122, CHEM 128, CHEM 134, 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. [3-0-3] Prerequisite: One of CHEM 122, CHEM 128, CHEM 134, 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 equilibrium; electrochemistry. [3-0-1] Prerequisite: One ofCHEM 122, CHEM 180, and one of MATH 200, MATH 217, MATH 238, MATH 253, MATH 263. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

CHEM_V 304-707 CHEM_V 304 T07 Fundamentals of Thermodynamics and Statistical Mechanics W1 Principles of chemical thermodynamics; introduction to statistical mechanics; phase equilibrium; electrochemistry. [3-0-1] Prerequisite: One of CHEM 122, CHEM 180, and one of MATH 200, MATH 217, MATH 238, MATH 253, MATH 263. In Person Learning Thu 5:00 p.m. - 6:30 p.m.

CHEM_V 304-9MT CHEM_V 304 T07 Fundamentals of Thermodynamics and Statistical Mechanics W1 Principles of chemical thermodynamics; introduction to statistical mechanics; phase equilibrium; electrochemistry. [3-0-1] Prerequisite: One of CHEM 122, CHEM 180, and one of MATH 200, MATH 217, MATH 238, MATH 253, MATH 263. In Person Learning Arranged Arranged

CHEM_V 305-211 CHEM_V 305 211 Biophysical Chemistry W2 Diffuse 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 CHEM 205, MATH 217, MATH 220, MATH 253 and either (a) a score of 70% or higher in CHEM 205 or (b) CHEM 204 or (c) PHYS 203 In Person Learning Arranged Arranged

CHEM_V 311-209 CHEM_V 311 209 Instrumental Analytical Chemistry W2 Theory, design, and application of instrumental methods of chemical analysis including spectrometry, mass spectrometry, electrochemistry, and chemical reactions. [3-0-1] Prerequisite: One of CHEM 212, CHEM 218, CHEM 219 In Person Learning Thu 3:30 p.m. - 6:00 p.m.

CHEM_V 311-702 CHEM_V 311 T02 Instrumental Analytical Chemistry W2 Theory, design, and application of instrumental methods of chemical analysis including spectrometry, mass spectrometry, electrochemistry, and chemical reactions. [3-0-1] Prerequisite: One of CHEM 212, CHEM 218, CHEM 219 In Person Learning Tue 10:00 a.m. - 12:00 p.m.

CHEM_V 311-9MT CHEM_V 311 T07 Instrumental Analytical Chemistry W2 Theory, design, and application of instrumental methods of chemical analysis including spectrometry, mass spectrometry, electrochemistry, and chemical reactions. [3-0-1] Prerequisite: One of CHEM 212, CHEM 218, CHEM 219 In Person Learning Arranged Arranged

CHEM_V 312-199 CHEM_V 312 T09 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, SCI 101 and one of MATH 200, MATH 217, MATH 220, 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 212 In Person Learning Mon Wed Fri 8:00 a.m. - 9:00 a.m.
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.

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.

Fundamental aspects of chemical catalysis: kinetic models, catalytic processes in biocatalysis 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.

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 213, CHEM 245.

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 213, CHEM 245.

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 213, CHEM 245.

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 213, CHEM 245.

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 213, CHEM 245.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<th>Credits</th>
<th>Location</th>
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<td>CHEM_V 330-110</td>
<td>Chem II Advanced Organic Chemistry</td>
<td>W1</td>
<td>1.00</td>
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<td>Mon Wed Fri 10:00 a.m. - 11:00 a.m.</td>
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<td>CHEM_V 335-L1B</td>
<td>Chemistry Integrated Laboratory II</td>
<td>W1</td>
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<td>Mon 2:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CHEM_V 335-L2C</td>
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<td>CHEM_V 335-L3C</td>
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<td>Chemistry Integrated Laboratory II</td>
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<td>CHEM_V 345-111</td>
<td>Global Challenges: A Chemical Perspective</td>
<td>W1</td>
<td>1.11</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 11:00 a.m. - 12:00 p.m.</td>
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<td>CHEM_V 345-112</td>
<td>Integrated Chemistry II</td>
<td>W1</td>
<td>1.12</td>
<td>In Person Learning</td>
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<td>CHEM_V 345-115</td>
<td>Integrated Chemistry II</td>
<td>W1</td>
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<td>CHEM_V 345-215</td>
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<td>W2</td>
<td>1.25</td>
<td>In Person Learning</td>
<td>Mon 2:00 p.m. - 6:00 p.m.</td>
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</table>

### Course Description

- **Advanced Organic Chemistry**: Application of functional group chemistry, cyclization reactions, conformational analysis and rearrangement reactions in organic synthesis. Prerequisite: CHEM 213.
- **Chemistry Integrated Laboratory II**: Further development of principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Prerequisite: CHEM 213.
- **Global Challenges: A Chemical Perspective**: Importance of chemistry in society. Detailed case studies drawn from modern chemistry: human health, energy, commodity chemicals, materials, green chemistry, agriculture. Prerequisite: CHEM 315.
- **Integrated Chemistry II**: Further development of principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. Prerequisite: CHEM 315.
CHEM-V 477-122  CHEM-V 427  122  Application 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.

CHEM-V 445-266  CHEM-V 434  266  Principles of Chemical Separation  W1  Unified theory of separation science; liquid and gas chromatography, capillary electrophoresis; electrochemical and spectrophotometric detection; separation methods coupled with mass spectrometry and tandem mass spectrometry, bioanalytical applications. Credit will be granted for only one of CHEM 434 or CHEM 514. [3-0-0] Prerequisite: CHEM 411.

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. [3-0-0] Prerequisite: One of CHEM 345, CHEM 355. Students satisfying the prerequisite requirement using CHEM 355 must have fourth-year standing in a Chemistry Combined Major specialization.

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. [3-0-0] Prerequisite: One of CHEM 345, CHEM 355. Students satisfying the prerequisite requirement using CHEM 355 must have fourth-year standing in a Chemistry Combined Major specialization.

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. [3-0-0] Prerequisite: One of CHEM 345, CHEM 355. Students satisfying the prerequisite requirement using CHEM 355 must have fourth-year standing in a Chemistry Combined Major specialization.

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. [3-0-0] Prerequisite: One of CHEM 345, CHEM 355. Students satisfying the prerequisite requirement using CHEM 355 must have fourth-year standing in a Chemistry Combined Major specialization.

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.

CHEM-V 449-A_100  CHEM-V 449  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.

CHEM-V 449-A_101  CHEM-V 449  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.

CHEM-V 449-B_302  CHEM-V 449  B  B_302  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.

CHEM-V 449-C_001  CHEM-V 449  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.

CHEM-V 449-C_003  CHEM-V 449  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.

CHEM-V 449-C_100  CHEM-V 449  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.

CHEM-V 449-C_101  CHEM-V 449  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.

CHEM-V 449-C_303  CHEM-V 449  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.

CHEM-V 449-D_002  CHEM-V 449  D  D_002  Seminar and Thesis  W1-2  Original research work under the direction of a faculty member. Weekly seminar. Required of all honors students. Open to Algoma students with a satisfactory standing and permission of the department head.

CHEM-V 449-D_002  CHEM-V 449  D  D_002  Seminar and Thesis  W1-2  Original research work under the direction of a faculty member. Weekly seminar. Required of all honors students. Open to Algoma students with a satisfactory standing and permission of the department head.

CHEM-V 449-D_002  CHEM-V 449  D  D_002  Seminar and Thesis  W2  Original research work under the direction of a faculty member. Weekly seminar. Required of all honors students. Open to Algoma students with a satisfactory standing and permission of the department head.
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<td>Seminar and Thesis W2</td>
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<td>CHEM 400-166</td>
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<td>Organic Synthesis: A Mechanistic Approach W1</td>
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<td>CHEM 400-233</td>
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<td>Synthetic Chemical Biology W2</td>
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<td>CHEM 475-188</td>
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<td>3-0-0</td>
<td>Structure Determination and Reaction Analysis W1</td>
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<td>CHEM 488-610</td>
<td>CHEN-V</td>
<td>490</td>
<td>610</td>
<td>Co-operative Work Placement III W1</td>
<td>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.</td>
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<tr>
<td>CHEM 488-620</td>
<td>CHEN-V</td>
<td>498</td>
<td>620</td>
<td>Co-operative Work Placement III W2</td>
<td>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.</td>
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<tr>
<td>CHEM 489-610</td>
<td>CHEN-V</td>
<td>499</td>
<td>610</td>
<td>Co-operative Work Placement IV W1</td>
<td>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.</td>
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<tr>
<td>CHEM 489-620</td>
<td>CHEN-V</td>
<td>499</td>
<td>620</td>
<td>Co-operative Work Placement IV W2</td>
<td>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.</td>
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<td>CHEM 501-111</td>
<td>CHEN-V</td>
<td>501</td>
<td>111</td>
<td>Applications of Quantum Mechanics in Chemistry W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEM 502-211</td>
<td>CHEN-V</td>
<td>502</td>
<td>211</td>
<td>Advanced Physical Chemistry of the Solid State W2</td>
<td>Credit will be granted for only one of CHEM 502 or CHEM 402. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEM 503-233</td>
<td>CHEN-V</td>
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<td>233</td>
<td>Equilibrium Statistical Mechanics in Chemistry W2</td>
<td>Credit will be granted for only one of CHEM 501, CHEM 503 or PHYS 545. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEM 506-101</td>
<td>CHEN-V</td>
<td>506</td>
<td>101</td>
<td>Polymer Chemistry W1</td>
<td>Credit will be granted for only one of CHEM 506 or CHEM 406. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEM 509-199</td>
<td>CHEN-V</td>
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<td>199</td>
<td>Astrochemistry W2</td>
<td>Credit will be granted for only one of CHEM 509 or CHEM 409. [3-0-0]</td>
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<td>CHEM 514-200</td>
<td>CHEN-V</td>
<td>514</td>
<td>200</td>
<td>Crystal Structure W2</td>
<td>Crystal structures and molecular analysis by the methods of X-ray diffraction and neutron diffraction. Credit will be granted for only one of CHEM 602 or CHEM 514. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEM 516-A_110</td>
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<td>Topics in Biophysical Chemistry W1</td>
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<td>Electrochemistry W2</td>
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<td>A_299</td>
<td>Topics in Molecular Spectroscopy W2</td>
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<td>CHEM 524-209</td>
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<td>524</td>
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<td>Advanced Applications in Organometallic Chemistry W2</td>
<td>Credit will be granted for only one of CHEM 414 or CHEM 524. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEM 529-199</td>
<td>CHEN-V</td>
<td>529</td>
<td>199</td>
<td>Structural Methods in Inorganic Chemistry W1</td>
<td>NMR, ESR, mass spectrometry, photoelectron spectroscopy, X-ray, X-Ray, Mossbauer spectroscopy, electrochemistry. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEN-V</td>
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<td>CHEM 534-209</td>
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<td>534</td>
<td>206</td>
<td>Principles of Chemical Separation W2</td>
<td>Credit will be granted for only one of CHEM 514 or CHEM 434. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHEM 535-A_212</td>
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<td>A_212</td>
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<td>CHEM 540-001</td>
<td>CHEN-V</td>
<td>548</td>
<td>001</td>
<td>Research Conference W1-2</td>
<td>Attendance is compulsory for all graduate students in each year of registration for the M.Sc. or Ph.D. in Chemistry. No credit value.</td>
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**Notes:**
- All courses are eligible for Credit/D/Fail grading.
- This course is not eligible for Credit/D/Fail grading.
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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 101 or CHIN 103 or CHIN 131. This course is not eligible for Credit/D/Fail grading. Recommended pre-requisites: one of CHIN 101 or CHIN 134. This course is not eligible for Credit/D/Fail grading.

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 101 or CHIN 103 or CHIN 131. Recommended pre-requisites: one of CHIN 101, CHIN 131. This course is not eligible for Credit/D/Fail grading.

Continuation of CHIN 131. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of CHIN 131 or CHIN 101 or CHIN 103 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131.

Continuation of CHIN 131. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of CHIN 131 or CHIN 101 or CHIN 103 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131.

Continuation of CHIN 131. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of CHIN 131 or CHIN 101 or CHIN 103 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131.
Skills in listening, speaking, reading, and writing Mandarin Chinese, active vocabulary of about 750 Chinese words, and basic grammar. Credit will be granted for only one of CHIN 241 or CHIN 115 or CHIN 244. Recommended pre-requisites: one of CHIN 105, CHIN 114, CHIN 133, CHIN 134. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing Mandarin Chinese, active vocabulary of about 750 Chinese words, and basic grammar. Credit will be granted for only one of CHIN 241 or CHIN 115 or CHIN 244. Recommended pre-requisites: one of CHIN 105, CHIN 114, CHIN 133, CHIN 134. This course is not eligible for Credit/D/Fail grading.

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Skills in listening, speaking, reading, and writing Mandarin Chinese, active vocabulary of about 750 Chinese words, and basic grammar. Credit will be granted for only one of CHIN 241 or CHIN 115 or CHIN 244. Recommended pre-requisites: one of CHIN 105, CHIN 114, CHIN 133, CHIN 134. This course is not eligible for Credit/D/Fail grading.

Emphasis on reading and writing. Credit will be granted for only one of CHIN 241 or CHIN 115 or CHIN 244. Recommended pre-requisites: one of CHIN 105, CHIN 114, CHIN 133, CHIN 134. This course is not eligible for Credit/D/Fail grading.

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<td>Intermediate Chinese II: Part 1 (Non-Heritage)</td>
<td>W1</td>
<td>Online Learning</td>
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<td>CHIN 345</td>
<td>Intermediate Chinese II: Part 1 (Heritage)</td>
<td>W1</td>
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<td>CHIN 345</td>
<td>Intermediate Chinese II: Part 1 (Non-Heritage)</td>
<td>W2</td>
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<td>CHIN 345</td>
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<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>CHIN 347</td>
<td>Intermediate Chinese II: Part 2 (Non-Heritage)</td>
<td>W1</td>
<td>Online Learning</td>
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<td>Arranged</td>
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<tr>
<td>CHIN 347</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CHIN 347</td>
<td>Intermediate Chinese II: Part 2 (Non-Heritage)</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>CHIN 347</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>CHIN 349</td>
<td>Intermediate Chinese II: Part 1 (Non-Heritage)</td>
<td>W1</td>
<td>Online Learning</td>
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<td>CHIN 349</td>
<td>Intermediate Chinese II: Part 1 (Heritage)</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>CHIN 349</td>
<td>Intermediate Chinese II: Part 1 (Heritage)</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
</tbody>
</table>

Skills in listening, speaking, reading, and writing, and understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and better understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.

Skills in listening, speaking, reading, and writing, and understanding of Chinese culture. Credit will be granted for only one of CHIN 341 or CHIN 342 or CHIN 343. Recommended pre-requisites: one of CHIN 101, CHIN 102, CHIN 103, CHIN 203. This course is not eligible for Credit/D/Fail grading.
Online Learning
Business Chinese II (Heritage) 443
Mon Wed
2:00 p.m. - 3:30 p.m.
Intermediate Chinese II: Part 2 (Heritage) W2
Tue Thu
9:30 a.m. - 11:00 a.m.
Advanced Chinese Reading and Writing I (Non-Heritage) 441
Mon Wed
5:00 p.m. - 6:30 p.m.
Arranged
Tue Thu
3:00 p.m. - 4:00 p.m.
In Person Learning
Business Chinese I (Heritage) W2
3:30 p.m. - 5:00 p.m.
Media Chinese I (Heritage) 415
W2
3:30 p.m. - 5:00 p.m.
Intermediate Chinese II: Part I (Heritage) 403
2:00 p.m. - 3:30 p.m.
Early Classical Chinese Poetry (to Han) 415
3:30 p.m. - 5:00 p.m.
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.

Recommended pre-requisites: one of CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 411, CHIN 413. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 217, CHIN 218, CHIN 219, CHIN 220. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 211, CHIN 212, CHIN 216, CHIN 243, CHIN 244. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 207, CHIN 208, CHIN 209, CHIN 210. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 207, CHIN 208, CHIN 209, CHIN 210. This course is not eligible for Credit/D/Fail grading.
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 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
10:00 a.m. - 12:30 p.m.

Readings in classical poetry from the Song to the Qing dynasties, at an advanced level. Not to be taken concurrently with any CHIN courses below 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 313 or 317. 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.

Readings in classical poetry from the Song to the Qing 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 481 or 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: Wed
5:00 p.m. - 6:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN_V 460-021</td>
<td>Classical Chinese II (heritage)</td>
</tr>
</tbody>
</table>

**Course Description:** Focus is on the Tang and Song dynasties (617–1279). Not to be taken concurrently with any of the following CHIN 460-level language courses: CHIN 441/443/445/447/448/452/457. Credit will be granted for only one of CHN 460 or CHIN 464. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 315, CHIN 316, CHIN 322, CHIN 323, CHN 437–449, CHIN 464, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Final grading.

**In Person Learning**
- **CINE_V 331**: 11:00 a.m. - 12:30 p.m., Fri
- **CINE_V 220**: 2:00 p.m. - 3:30 p.m., Wed
- **CINE_V 002**: 100, Fri
- **CINE_V 200**: 2:00 p.m. - 3:00 p.m., Mon

**Overview:**
- Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 240 or CINE 240.
- 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.
- 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.
- 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.
- 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.

**Recommended Pre-requisites:**
- CHIN 493/433/494. Recommended pre-requisites: one of CHIN 400-level language courses: CHIN 441/443/445/447/448/435/437. Credit will be granted for only one of CHIN 493 or CHIN 494.
**CINE_V 332-001**  
**CINE_V**  
**W1**  
Studies in Genre or Period  
A seminar examining one or more genres or periods, such as the Western, Film Noir, Science Fiction, films of the 1960’s. Also includes study of national cinemas. Credit will be granted for only one of FIST 332 or CINE 332.

**CINE_V 334-001**  
**CINE_V**  
**W1**  
Seminar in Documentary  
An analysis of the representational strategies and ethics of the form. Credit will be granted for only one of FIST 334 or CINE 334.

**CINE_V 336-001**  
**CINE_V**  
**W2**  
Seminar in European Cinema  
Topics may include a study of a European national cinema. Credit will be granted for only one of FIST 336 or CINE 336.

**CINE_V 338-001**  
**CINE_V**  
**W2**  
Asian and Australasian Cinema  
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.

**CINE_V 340-001**  
**CINE_V**  
**W1**  
Media Audiences  
A seminar examining the work of one or more directors, such as John Ford, Dario Argento, Demy Arnaud, Marguerite Von Trotta, or of a screenwriter over many films. Credit will be granted for only one of FIST 340 or CINE 340.

**CINE_V 430-001**  
**CINE_V**  
**W2**  
Studies in Auteurism  
A seminar devoted to a topic of current interest in film. Topics will change from year to year. May be repeated for credit when topics differ. Credit will be granted for only one of FIST 430 or CINE 430.

**CINE_V 432-A_001**  
**CINE_V**  
**W2**  
Seminar in Motion Picture Forms  
A seminar examining the work of one or more directors, such as John Ford, Dario Argento, Demy Arnaud, Marguerite Von Trotta, or of a screenwriter over many films. Credit will be granted for only one of FIST 432 or CINE 432.

**CINE_V 434-B_001**  
**CINE_V**  
**W2**  
Studies in Film  
A seminar devoted to a topic of current interest in film. Topics 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.

**CINE_V 436-001**  
**CINE_V**  
**W2**  
Seminar in American Cinema Since 1960  
Topics may include an analysis of a specific period. Credit will be granted for only one of FIST 436 or CINE 436.

**CINE_V 438-002**  
**CINE_V**  
**W2**  
Seminar in Canadian Cinema  
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.

**CINE_V 465-001**  
**CINE_V**  
**W1**  
Honours Essay  
A course allowing honours students to work with a faculty member on a major research paper. Credit will be granted for only one of FIST 465 or CINE 465.

**CIVL_V 201-101**  
**CIA_V**  
**W1**  
Introduction to Civil Engineering  
The design process, graphical visualization, engineering computer 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 CIVL 150, ENGL 110, ENGL 120, ENGL 121, WOOD 110. Corequisite: CIVL 201. Hybrid Learning

**CIVL_V 203-101**  
**CIA_V**  
**W1**  
Technical Communication in Civil Engineering  
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 CIVL 150, ENGL 110, ENGL 120, ENGL 121, WOOD 110. Corequisite: CIVL 201. Equivalency: APSC 201

**CIVL_V 203-102**  
**CIA_V**  
**W1**  
Technical Communication in Civil Engineering  
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 CIVL 150, ENGL 110, ENGL 120, ENGL 121, WOOD 110. Corequisite: CIVL 201. Equivalency: APSC 201

**CIVL_V 203-103**  
**CIA_V**  
**W1**  
Technical Communication in Civil Engineering  
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 CIVL 150, ENGL 110, ENGL 120, ENGL 121, WOOD 110. Corequisite: CIVL 201. Equivalency: APSC 201

**CIVL_V 203-104**  
**CIA_V**  
**W1**  
Technical Communication in Civil Engineering  
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 CIVL 150, ENGL 110, ENGL 120, ENGL 121, WOOD 110. Corequisite: CIVL 201. Equivalency: APSC 201

**CIVL_V 299-101**  
**CIA_V**  
**W1**  
Fundamentals of Environmental Engineering  
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

**CIVL_V 299-201**  
**CIA_V**  
**W2**  
Fundamentals of Environmental Engineering  
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

**CIVL_V 210-201**  
**CIA_V**  
**W2**  
Soil Mechanics I  
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. [3-0-0] Prerequisite: One of CIA 241, MICH 246, WOOD 276, or third-year standing in CivEng.

**CIVL_V 210-L2A**  
**CIA_V**  
**W2**  
Soil Mechanics I  
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. [3-0-0] Prerequisite: One of CIA 241, MICH 246, WOOD 276, or third-year standing in CivEng.

**CIVL_V 210-L2B**  
**CIA_V**  
**W2**  
Soil Mechanics I  
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. [3-0-0] Prerequisite: One of CIA 241, MICH 246, WOOD 276, or third-year standing in CivEng.

**CIVL_V 110-001**  
**CIVL_V**  
**W2**  
Honors Essay  
A course allowing honours students to work with a faculty member on a major research paper. Credit will be granted for only one of FIST 465 or CINE 465.

**CIVL_V 111-001**  
**CIVL_V**  
**W2**  
Honors Essay  
A course allowing honours students to work with a faculty member on a major research paper. Credit will be granted for only one of FIST 465 or CINE 465.

**CIVL_V 120-001**  
**CIVL_V**  
**W2**  
Honors Essay  
A course allowing honours students to work with a faculty member on a major research paper. Credit will be granted for only one of FIST 465 or CINE 465.

**CIVL_V 121-001**  
**CIVL_V**  
**W2**  
Honors Essay  
A course allowing honours students to work with a faculty member on a major research paper. Credit will be granted for only one of FIST 465 or CINE 465.
In Person Learning
Fri W2
Soil Mechanics I
3:00 p.m. - 5:30 p.m.
L2H
Arranged
215
210
Arranged
W2
Soil Mechanics I
Tue 231
215
Arranged
Online Learning
In Person Learning
Mon Wed Fri
Engineering and Sustainable Development
101
In Person Learning
Soil Mechanics I
302
In Person Learning
Soil Mechanics I
201
Tue Thu
201
210
In Person Learning
T1A
In Person Learning
In Person Learning
Tue
Structural Mechanics
Construction Engineering and Management
W2
L2C
Civil Engineering Impacts
Wed
10:00 a.m. - 11:00 a.m.
Wed Thu
3:00 p.m. - 5:00 p.m.
2:30 p.m. - 3:30 p.m.
3:00 p.m. - 5:30 p.m.
210
L2G
Soil Mechanics I
W2
Soil classification, principle of effective stress, analysis of seepage, fiber criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*] 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 302-12A CIVL 210 T2A Soil Mechanics I W2 Soil classification, principle of effective stress, analysis of seepage, fiber criteria, introduction to shear strength and slope stability analysis. This course is not eligible for Credit/D/Fail grading. [3-2*] 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 230-101 CIVL 210 101 Soil Mechanics I W1 Stress and strain, Mohr's law, ideally loaded members, torsion, shear forces and bending moments in beams, bending and shear stresses in beams, composite members, introduction to statics and statically indeterminate problems. This course is not eligible for Credit/D/Fail grading. [3-2*] Prerequisite: All of PHYS 170, MATH 101. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.
CIVL 230-11A CIVL 210 11A Fluid Mechanics I W1 Fluid properties, hydrodynamics, kinematics, and fluid dynamics: energy and momentum methods with applications. Dimensional analysis, modeling, 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 230-11B CIVL 210 11B Fluid Mechanics I W1 Fluid properties, hydrodynamics, kinematics, and fluid dynamics: energy and momentum methods with applications. Dimensional analysis, modeling, 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 230-11C CIVL 210 11C Fluid Mechanics I W1 Fluid properties, hydrodynamics, kinematics, and fluid dynamics: energy and momentum methods with applications. Dimensional analysis, modeling, 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 230-101 CIVL 220 101 Solid Mechanics I W1 Stress and strain, Mohr's law, ideally loaded members, torsion, shear forces and bending moments in beams, bending and shear stresses in beams, composite members, introduction to statics and statically indeterminate problems. This course is not eligible for Credit/D/Fail grading. [3-2*] Prerequisite: All of PHYS 170, MATH 101. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.
CIVL 230-11A CIVL 220 11A Solid Mechanics I W1 Stress and strain, Mohr's law, ideally loaded members, torsion, shear forces and bending moments in beams, bending and shear stresses in beams, composite members, introduction to statics and statically indeterminate problems. This course is not eligible for Credit/D/Fail grading. [3-2*] Prerequisite: All of PHYS 170, MATH 101. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.
CIVL 230-11B CIVL 220 11B Structural Mechanics W2 Definition of beams and structural systems; analysis of determinate structures; combination of load and bending; beam: columns, buckling (stability), basic stresses and strains; construction and testing of model structures. 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 230-12A CIVL 220 T2A Structural Mechanics W2 Definition of beams and structural systems; analysis of determinate structures; combination of load and bending; beam: columns, buckling (stability), basic stresses and strains; construction and testing of model structures. 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 230-101 CIVL 250 101 Engineering and Sustainable Development W1 Implications of a finite biosphere and the complexities inherent in environmental decision-making [3-0-1] Online Learning Arranged Arranged
CIVL 230-101 CIVL 250 101 Engineering and Sustainable Development W1 Implications of a finite biosphere and the complexities inherent in environmental decision-making [3-0-1] Online Learning Arranged Arranged
CIVL 230-201 CIVL 300 201 Construction Engineering and Management W2 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, CIVL 203. In Person Learning Wed Fri 12:30 p.m. - 2:00 p.m.
CIVL 300-101 CIVL 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, CIVL 203. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.
CIVL 300-11A CIVL 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, CIVL 203. In Person Learning Thu 2:30 p.m. - 3:30 p.m.
CIVL 302-201 CIVL 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. [3-0-1] Prerequisite: CIVL 301. In Person Learning Arranged Arranged
CIVL 302-202 CIVL 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. [3-0-1] Prerequisite: CIVL 301. In Person Learning Tue 11:00 a.m. - 12:30 p.m.
CIVL 302-203 CIVL 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. [3-0-1] Prerequisite: CIVL 301. In Person Learning Arranged Arranged
CIVL_V 302-204

CIVL_V

302

204

Civil Engineering Impacts

W2

CIVL_V 303-101

CIVL_V

303

101

Computational Tools in Civil Engineering

W1

CIVL_V 303-T1A

CIVL_V

303

T1A

Computational Tools in Civil Engineering

W1

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
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
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

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.

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

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

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

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

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

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

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

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

CIVL_V 305-201

CIVL_V 311-101

CIVL_V 311-L1A

CIVL_V 311-L1B

CIVL_V 311-L1C

CIVL_V 311-L1D

CIVL_V 311-L1E

CIVL_V 311-L1F

CIVL_V 311-L1G

CIVL_V

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311

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311

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311

201

101

L1A

L1B

L1C

L1D

L1E

L1F

L1G

Introduction to Environmental Engineering Applications

Soil Mechanics II

Soil Mechanics II

Soil Mechanics II

Soil Mechanics II

Soil Mechanics II

Soil Mechanics II

Soil Mechanics II

Soil Mechanics II

CIVL_V 311-L1H

CIVL_V

311

L1H

Soil Mechanics II

W1

CIVL_V 315-101

CIVL_V

315

101

Fluid Mechanics II

W1

CIVL_V 315-L1A

CIVL_V

315

L1A

Fluid Mechanics II

W1

CIVL_V 315-L1B

CIVL_V

315

L1B

Fluid Mechanics II

W1

CIVL_V 315-L1C

CIVL_V

315

L1C

Fluid Mechanics II

W1

CIVL_V 315-L1D

CIVL_V

315

L1D

Fluid Mechanics II

W1

CIVL_V 315-L1E

CIVL_V

315

L1E

Fluid Mechanics II

W1

CIVL_V 315-L1F

CIVL_V

315

L1F

Fluid Mechanics II

W1

CIVL_V 315-L1G

CIVL_V

315

L1G

Fluid 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]
Two-dimensional flow around immersed objects; velocity and pressure fields; lift and drag on
cylinders and aerofoils; fluid loads on structures and structural response; pumps and turbines;
analysis and design of pipeline systems; unsteady flow in pipes; frictionless water hammer analysis.
This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of ENVE 201, CIVL
203 and all of CIVL 215, MATH 256.
Two-dimensional flow around immersed objects; velocity and pressure fields; lift and drag on
cylinders and aerofoils; fluid loads on structures and structural response; pumps and turbines;
analysis and design of pipeline systems; unsteady flow in pipes; frictionless water hammer analysis.
This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of ENVE 201, CIVL
203 and all of CIVL 215, MATH 256.
Two-dimensional flow around immersed objects; velocity and pressure fields; lift and drag on
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This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of ENVE 201, CIVL
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Two-dimensional flow around immersed objects; velocity and pressure fields; lift and drag on
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Two-dimensional flow around immersed objects; velocity and pressure fields; lift and drag on
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analysis and design of pipeline systems; unsteady flow in pipes; frictionless water hammer analysis.
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Two-dimensional flow around immersed objects; velocity and pressure fields; lift and drag on
cylinders and aerofoils; fluid loads on structures and structural response; pumps and turbines;
analysis and design of pipeline systems; unsteady flow in pipes; frictionless water hammer analysis.
This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of ENVE 201, CIVL
203 and all of CIVL 215, MATH 256.

Arranged

Arranged

Mon Wed

8:00 a.m. - 9:00 a.m.

Fri

8:00 a.m. - 9:00 a.m.

Mon Wed

9:00 a.m. - 10:30 a.m.

Mon Wed Fri

11:00 a.m. - 12:00 p.m.

Mon (Alternate weeks)

2:00 p.m. - 4:00 p.m.

Mon (Alternate weeks)

2:00 p.m. - 4:00 p.m.

Tue (Alternate weeks)

3:00 p.m. - 5:00 p.m.

Tue (Alternate weeks)

3:00 p.m. - 5:00 p.m.

Wed (Alternate weeks)

3:00 p.m. - 5:00 p.m.

Wed (Alternate weeks)

3:00 p.m. - 5:00 p.m.

Fri (Alternate weeks)

3:00 p.m. - 5:00 p.m.

In Person Learning

Fri (Alternate weeks)

3:00 p.m. - 5:00 p.m.

In Person Learning

Mon Wed Fri

1:00 p.m. - 2:00 p.m.

In Person Learning

Mon (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Mon (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Mon (Alternate weeks)

4:00 p.m. - 6:00 p.m.

In Person Learning

Mon (Alternate weeks)

4:00 p.m. - 6:00 p.m.

In Person Learning

Tue (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Tue (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Tue (Alternate weeks)

4:00 p.m. - 6:00 p.m.

In Person Learning


Two-dimensional flow around immersed objects, velocity and pressure fields; lift and drag on cylinders and aerofoils; fluid loads on structures and structural response; pumps and turbines; analysis and design of pipeline systems; steady flow in pipes; frictionless water hammer analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of ENVE 201, CIVL 203 and all of CIVL 215, MATH 256.

Hydrology and Open Channel Flow

Two-dimensional flow around immersed objects, velocity and pressure fields; lift and drag on cylinders and aerofoils; fluid loads on structures and structural response; pumps and turbines; analysis and design of pipeline systems; steady flow in pipes; frictionless water hammer analysis. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: One of ENVE 201, CIVL 203 and all of CIVL 215, MATH 256.

In Person Learning Wed (alternate weeks)

4:00 p.m. - 6:00 p.m.

In Person Learning Thu (alternate weeks)

4:00 p.m. - 6:00 p.m.

In Person Learning Fri

2:00 p.m. - 4:00 p.m.

In Person Learning

Mon (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Wed (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Tue (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Wed (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Mon (Alternate weeks)

2:00 p.m. - 4:00 p.m.

In Person Learning

Wed (Alternate weeks)

2:00 p.m. - 4:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>CRN</th>
<th>Title</th>
<th>Instructor</th>
<th>Units</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL 316-121</td>
<td>316</td>
<td>Introduction to open channel hydraulics, engineering, hydrology, and water resource systems; estimation of design discharge; flood statistics; nonuniform steady open channel flow, energy and momentum principles, backwater analysis, calculation and bridge hydraulics. This course is not eligible for Credit/D/Fail grading. Prerequisite: CIVL 215 and one of APSC 301, CIVL 203, ENVE 201.</td>
<td>W2</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CIVL 316-122</td>
<td>316</td>
<td>Introduction to open channel hydraulics, engineering, hydrology, and water resource systems; estimation of design discharge; flood statistics; nonuniform steady open channel flow, energy and momentum principles, backwater analysis, calculation and bridge hydraulics. This course is not eligible for Credit/D/Fail grading. Prerequisite: CIVL 215 and one of APSC 301, CIVL 203, ENVE 201.</td>
<td>W2</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CIVL 316-123</td>
<td>316</td>
<td>Introduction to open channel hydraulics, engineering, hydrology, and water resource systems; estimation of design discharge; flood statistics; nonuniform steady open channel flow, energy and momentum principles, backwater analysis, calculation and bridge hydraulics. This course is not eligible for Credit/D/Fail grading. Prerequisite: CIVL 215 and one of APSC 301, CIVL 203, ENVE 201.</td>
<td>W2</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CIVL 316-124</td>
<td>316</td>
<td>Introduction to open channel hydraulics, engineering, hydrology, and water resource systems; estimation of design discharge; flood statistics; nonuniform steady open channel flow, energy and momentum principles, backwater analysis, calculation and bridge hydraulics. This course is not eligible for Credit/D/Fail grading. Prerequisite: CIVL 215 and one of APSC 301, CIVL 203, ENVE 201.</td>
<td>W2</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CIVL 316-125</td>
<td>316</td>
<td>Introduction to open channel hydraulics, engineering, hydrology, and water resource systems; estimation of design discharge; flood statistics; nonuniform steady open channel flow, energy and momentum principles, backwater analysis, calculation and bridge hydraulics. This course is not eligible for Credit/D/Fail grading. Prerequisite: CIVL 215 and one of APSC 301, CIVL 203, ENVE 201.</td>
<td>W2</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>
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 301, CIVL 335.

In Person Learning  Mon Wed Fri  2:00 p.m. - 2:30 p.m.

An introduction to the process of foundation engineering. Empirical and analytical approaches used in current professional practice. Topics include soil investigations, preliminary 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: CIVL 311.

In Person Learning  Mon Wed Fri  10:00 a.m. - 11:00 a.m.

Awareness of Geotechnical Engineering. Design considerations illustrated by case histories pertinent to BC. Topics include soil investigations, terrain analysis, in-situ testing, groundwater problems, deep foundations, toe load stability and bracing, load imbalances, foundation construction, ground improvement, and earth and dam 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 400.

In Person Learning  Mon Wed Fri  10:00 a.m. - 12:00 p.m.

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 stability; field instrumentation. This course is not eligible for Credit/D/Fail grading. [1-0-0] Prerequisite: CIVL 411. Fourth-year standing.

In Person Learning  Tue Thu  8:00 a.m. - 9:30 a.m.

An introduction to the planning and design of water resources 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 301, CIVL 302, CIVL 311.

In Person Learning  Mon Wed Fri  12:00 p.m. - 1:30 p.m.

Applications of hydraulic engineering principles to problems of environmental concern. Pollutant transport and dispersion. Mixing in rivers and seas. Theory of jets and plumes. Design of outfall and overflow structures. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 316, CIVL 313, CIVL 314.

In Person Learning  Mon Wed Fri  1:00 a.m. - 3:00 a.m.

Linear wave theory; wave shoaling, refraction and diffraction; random waves; wave generation; long waves; tidal and current; coastal structures; beaches and coastal; wave processes; harbours 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 MATH 255, MATH 256.

In Person Learning  Mon Wed Fri  3:00 p.m. - 4:30 p.m.

Hydrostatic processes - weather, precipitation, infiltration, evaporation, movement 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 Fri  4:30 p.m. - 5:00 p.m.

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 425 or CIVL 521. [3-0-0] Prerequisite: Fourth-year standing.

In Person Learning  Mon Wed Fri  6:00 p.m. - 7:30 p.m.

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 Wed Fri  9:00 p.m. - 10:30 p.m.

Introduction to classical machine learning algorithms, including linear regression, logistic regression, decision trees, and neural networks, and their applications to Civil Engineering problems, such as construction safety, building energy consumption, and traffic simulation. Other topics at the discretion of the instructor. [3-0-0] Prerequisite: CIVL 300.

In Person Learning  Mon Wed Fri  11:00 a.m. - 12:30 p.m.

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. [3-0-0] Prerequisite: CIVL 311.

In Person Learning  Mon Wed Fri  12:30 p.m. - 2:00 p.m.

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. [3-0-0] Prerequisite: CIVL 311.

In Person Learning  Mon Wed Fri  2:30 p.m. - 4:00 p.m.

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. [3-0-0] Prerequisite: CIVL 311.

In Person Learning  Mon Wed Fri  4:00 p.m. - 6:00 p.m.

Design of steel structures to resist vertical and lateral loads. Roof and floor systems including conceptual layout, floor deck, beams, joists, trusses, and columns. Stability issues and limit states design. Connections and construction aspects. Steel design. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 341.

In Person Learning  Mon Wed Fri  9:00 a.m. - 10:00 a.m.

Design of concrete 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, CIVL322.

In Person Learning  Mon Wed Fri  10:00 a.m. - 11:00 a.m.

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 Fri  11:00 a.m. - 12:30 p.m.

Shear flow, shear deformation, St. Venant torsion, weeping tensile, P-delta and geometric stiffness, buckling of columns and frames, cylindrical shells, beams on elastic foundations, shear wall analysis, elastic 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  Mon Wed Fri  3:30 p.m. - 5:00 p.m.

Further techniques in matrix structural analysis, non-rigid supports, temperature-stiffness 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: CIVL 332.  

In Person Learning  Mon Wed Fri  3:30 p.m. - 5:00 p.m.
Course 418-201: Design of Timber Structures
- 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 418 or CIVL 518. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CIVL 203, WOOD 386.

Course 440-101: Transportation Engineering I
- Traffic operations and network analysis; microscopic traffic models and shockwave 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] Fourth-year standing.

Course 441-201: Transportation Planning and Analysis
- Transportation systems planning and analysis: data needs, survey 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 540 or AHS 529. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: [CIVL340] Fourth-year standing.

Course 445-101: Civil Engineering Design Project I
- 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*-0-2] Prerequisite: CIVL 203 and fourth-year standing.

Course 445-102: Civil Engineering Design Project II
- 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*-0-2] Prerequisite: CIVL 203 and fourth-year standing.

Course 446-101: Civil Engineering Design Project I
- 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*-0-2] Prerequisite: CIVL 203 and fourth-year standing.

Course 446-102: Civil Engineering Design Project II
- 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*-0-2] Prerequisite: CIVL 203 and fourth-year standing.

Course 448-101: Topics in Civil Engineering
- Seminar or lecture. This course is not eligible for Credit/D/Fail grading.

Course 449-101: Topics in Civil Engineering
- Seminar or lecture. This course is not eligible for Credit/D/Fail grading.

Course 450-101: Seismic Hazard Analysis and Design Parameters
- Causes and characteristics of earthquakes. Properties of ground motion records. Estimation of ground motion intensity and analysis of interaction relationships. Probabilistic and deterministic seismic hazard analyses for both site and regions. Selection of earthquake records and construction of design spectra. This course is not eligible for Credit/D/Fail grading.

Course 450-201: Seismic Hazard Analysis and Design Parameters
- Response of structures to earthquakes; concept of flexibility; understanding and applications of seismic design codes for buildings; quasi-static, modal, and nonlinear analyses; modeling of structures; design of structures using energy dissipation devices. This course is not eligible for Credit/D/Fail grading.

**Advanced Soil Mechanics**
- **Mon, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Urban Transportation System Analysis**
- **W1, 10:00 a.m. - 12:30 p.m.**
- In Person Learning
- Arranged

**Experimental Soil Mechanics**
- **W1, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**In Person Learning**
- **W1, 5:30 p.m. - 7:00 p.m.**

**Pedestrian and Bicycle Transportation Design**
- **W1, 1:30 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**In Person Learning**
- **W2, 1:30 p.m. - 3:00 p.m.**

**Environmental Data Collection and Analysis**
- **W1, 9:30 a.m. - 12:30 p.m.**
- In Person Learning
- Arranged

**Environmental Biotechnology**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Physical-Chemical Treatment Processes**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Fate of Contaminants in Aquatic Systems**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Soil Dynamics for Design Practice**
- **W2, 9:30 a.m. - 12:30 p.m.**
- In Person Learning
- Arranged

**Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.**
- **W2, 1:30 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Environmental Engineering**
- **Mon, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Urban Engineering Methods and Models**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Pedestrian and Bicycle Transportation**
- **W2, 9:30 a.m. - 12:30 p.m.**
- In Person Learning
- Arranged

**In Person Learning**
- **W1, 12:00 p.m. - 1:30 p.m.**

**Environmental Data Collection and Analysis**
- **W1, 1:00 p.m. - 2:00 p.m.**
- In Person Learning
- Arranged

**Environmental Biotechnology**
- **W1, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Physical-Chemical Treatment Processes**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Fate of Contaminants in Aquatic Systems**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Soil Dynamics for Design Practice**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.**
- **W2, 5:30 p.m. - 7:00 p.m.**
- In Person Learning
- Arranged

**Environmental Engineering**
- **Mon, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Urban Engineering Methods and Models**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Pedestrian and Bicycle Transportation**
- **W2, 9:30 a.m. - 12:30 p.m.**
- In Person Learning
- Arranged

**Environmental Data Collection and Analysis**
- **W2, 1:30 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Environmental Biotechnology**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Physical-Chemical Treatment Processes**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Fate of Contaminants in Aquatic Systems**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Soil Dynamics for Design Practice**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Presentations and discussions of current research topics in various disciplines of Civil Engineering. This course is not eligible for Credit/D/Fail grading.**
- **W2, 5:30 p.m. - 7:00 p.m.**
- In Person Learning
- Arranged

**Environmental Engineering**
- **Mon, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Urban Engineering Methods and Models**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Pedestrian and Bicycle Transportation**
- **W2, 9:30 a.m. - 12:30 p.m.**
- In Person Learning
- Arranged

**Environmental Data Collection and Analysis**
- **W2, 1:30 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Environmental Biotechnology**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Physical-Chemical Treatment Processes**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Fate of Contaminants in Aquatic Systems**
- **W2, 2:00 p.m. - 3:00 p.m.**
- In Person Learning
- Arranged

**Soil Dynamics for Design Practice**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
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- **W2, 5:30 p.m. - 7:00 p.m.**
- In Person Learning
- Arranged

**Environmental Engineering**
- **Mon, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
- Arranged

**Urban Engineering Methods and Models**
- **W2, 3:30 p.m. - 5:00 p.m.**
- In Person Learning
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**Soil Dynamics for Design Practice**
- **W2, 3:30 p.m. - 5:00 p.m.**
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- Arranged

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- **W2, 5:30 p.m. - 7:00 p.m.**
- In Person Learning
- Arranged
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An overview of selected theories of counselling. [3-0]

Examination of current theories and practices in family education and consultation. [3-0]

Critical survey of career counselling theory and practice. [3-0]

An overview of selected theories of counselling. [3-0]

The work of the beginning counsellor and guidance worker in assisting students with educational, vocational, and personal planning and decision-making. [3-0]

The work of the beginning counsellor and guidance worker in assisting students with educational, vocational, and personal planning and decision-making. [3-0]

Towards better self-understanding and better perspectives of alternatives. [2-1]

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]
<table>
<thead>
<tr>
<th>CNPS_V_433-43F</th>
<th>CNPS_V_433-63G</th>
<th>The Personal and Social Development of the Adult</th>
<th>W2</th>
<th>Personal and social adjustment issues for professional counselors; basic skills necessary for effective group counseling. [3-3]</th>
<th>Online Learning</th>
<th>Arranged</th>
<th>Arranged</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNPS_V_539-001</td>
<td>CNPS_V_514-001</td>
<td>School Counselling</td>
<td>W1</td>
<td>Theory and practice of school counseling; this course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>CNPS_V_524-001</td>
<td>CNPS_V_522-001</td>
<td>Counselling Adolescents</td>
<td>W1</td>
<td>Theory, research, and practice of counselling adolescents; this course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>CNPS_V_524-001</td>
<td>CNPS_V_522-001</td>
<td>Counselling Adults</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>CNPS_V_532-001</td>
<td>CNPS_V_532-001</td>
<td>Psychological Assessment in Counselling</td>
<td>W2</td>
<td>The use of standardized measures of mental ability, achievement, aptitude, interest and personality; this course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>CNPS_V_604-003</td>
<td>CNPS_V_604-003</td>
<td>Group Counselling</td>
<td>W2</td>
<td>Understanding, designing and development of groups; and how to conduct them for use in counselling and guidance services; this course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>CNPS_V_569-074</td>
<td>CNPS_V_569-074</td>
<td>Social Psychological Foundations in Applied Psychology</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: EPSE408</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CNPS_V_574-001</td>
<td>CNPS_V_574-001</td>
<td>Career Planning and Decision-Making Counselling</td>
<td>W1</td>
<td>Theory, research, and practice of career planning and decision counselling; this course is not eligible for Credit/D/Fail grading. Prerequisite: [CNPS450]</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>CNPS_V_578-C_002</td>
<td>CNPS_V_578-C_002</td>
<td>Individual and Family Counselling Theories and Interventions</td>
<td>W1-2</td>
<td>Major counselling theories, interventions for change and corresponding skill development. Prerequisite: [CNPS450]</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>CNPS_V_579-001</td>
<td>CNPS_V_579-001</td>
<td>Research in Counselling Psychology</td>
<td>W1</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>Arranged</td>
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</tr>
<tr>
<td>CNPS_V_580-A_001</td>
<td>CNPS_V_580-A_001</td>
<td>Problems in Education</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>CNPS_V_580-B_002</td>
<td>CNPS_V_580-B_002</td>
<td>Problems in Education</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>CNPS_V_580-C_003</td>
<td>CNPS_V_580-C_003</td>
<td>Problems in Education</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>CNPS_V_580-C_004</td>
<td>CNPS_V_580-C_004</td>
<td>Problems in Education</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>CNPS_V_584-002</td>
<td>CNPS_V_584-002</td>
<td>Program Development and Professional Practice in Counselling</td>
<td>W2</td>
<td>Designing, implementing and assessing counseling programs in schools, colleges, universities, and other counselling settings; recommended pre-requisites: one of EPSE 482, EPSE 483 and one of EPSE 482, EPSE 483. This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNPS_V_586-002</td>
<td>CNPS_V_586-002</td>
<td>Ethics in Counselling Psychology</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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</tr>
<tr>
<td>CNPS_V_588-C_001</td>
<td>CNPS_V_588-C_001</td>
<td>Supervised Training in Counselling</td>
<td>W1-2</td>
<td>Initial counseling 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.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>CNPS_V_588-C_002</td>
<td>CNPS_V_588-C_002</td>
<td>Supervised Training in Counselling</td>
<td>W1-2</td>
<td>Initial counseling 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.</td>
<td>In Person Learning</td>
<td>Tha</td>
<td>3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CNPS_V_588-C_003</td>
<td>CNPS_V_588-C_003</td>
<td>Supervised Training in Counselling</td>
<td>W1-2</td>
<td>Initial counseling 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.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CNPS_V_588-C_004</td>
<td>CNPS_V_588-C_004</td>
<td>Supervised Training in Counselling</td>
<td>W1-2</td>
<td>Initial counseling 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.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>CNPS_V_588-C_005</td>
<td>CNPS_V_588-C_005</td>
<td>Supervised Training in Counselling</td>
<td>W1-2</td>
<td>Initial counseling 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.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>CNPS_V_588-C_006</td>
<td>CNPS_V_588-C_006</td>
<td>Supervised Training in Counselling</td>
<td>W1-2</td>
<td>Initial counseling 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.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Level</td>
<td>Type</td>
<td>Credit Value</td>
<td>Registration Notes</td>
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<tr>
<td>CNPS_V 598-C_001</td>
<td>Basic Cantonese I</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNPS_V 598-C_001</td>
<td>Basic Cantonese II</td>
<td>W2</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>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.</td>
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</tr>
<tr>
<td>CNPS_V 598-H_001</td>
<td>Advanced Assessment</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Counseling 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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNPS_V 598-H_001</td>
<td>Advanced Assessment</td>
<td>W2</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Counseling 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.</td>
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</tr>
<tr>
<td>CNPS_V 669-A_001</td>
<td>Research Approaches in Counselling Psychology</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Major theoretical traditions in Counselling Psychology and illustrative of the links among theory, research and practice; perspectives on Counselling Psychology as a distinct field of specialization.</td>
<td></td>
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</tr>
<tr>
<td>CNPS_V 678-A_001</td>
<td>Theoretical Approaches in Counselling Psychology</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Major theoretical traditions in Counselling Psychology and illustrative of the links among theory, research and practice; perspectives on Counselling Psychology as a distinct field of specialization.</td>
<td></td>
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</tr>
<tr>
<td>CNPS_V 688-A_001</td>
<td>Supervision of Counselling Practice</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Supervision requires both knowledge of supervision models and practices, and skills to implement them. This course involves a seminar and practice 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.</td>
<td></td>
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</tr>
<tr>
<td>CNPS_V 699-A_001</td>
<td>Pre-Doctoral Internship</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>A 160-hour supervised internship in Counselling Psychology. Internship sites offer counselling services as detailed in the Specialty Guidelines for the Delivery of Services by Counselling Psychologists (APA). Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
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</tr>
<tr>
<td>CNPS_V 699-A_002</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>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.</td>
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</tr>
<tr>
<td>CNPS_V 699-A_002</td>
<td>Master's Thesis</td>
<td>W2</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>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.</td>
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</tbody>
</table>

**Notes:**
- 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.
- For students in the Doctoral 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.
- This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Notes</th>
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<tbody>
<tr>
<td>COEC 311-017</td>
<td>Financial Accounting</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-018</td>
<td>Corporate Finance</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Tue Thu Fri</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-019</td>
<td>Strategic Management</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-020</td>
<td>Investment Theory</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-021</td>
<td>Corporate Enterprise Management</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-022</td>
<td>Corporate Finance</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-023</td>
<td>Strategic Management</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
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<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-024</td>
<td>Corporate Enterprise Management</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
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<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-025</td>
<td>Corporate Finance</td>
<td>3</td>
<td>3:00 p.m.</td>
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<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 311-026</td>
<td>Strategic Management</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
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<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 401-011</td>
<td>Basic Cantonese for Mandarin Speakers</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 401-021</td>
<td>Basic Cantonese for Mandarin Speakers</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 403-011</td>
<td>Intermediate Cantonese I</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
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<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 403-021</td>
<td>Intermediate Cantonese I</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 410-011</td>
<td>Intermediate Cantonese II</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 410-021</td>
<td>Intermediate Cantonese II</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
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<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 411-011</td>
<td>Advanced Cantonese through Popular Culture</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 411-021</td>
<td>Advanced Cantonese through Popular Culture</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 299-002</td>
<td>Financial Accounting</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 204-001</td>
<td>Management Accounting</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 365-001</td>
<td>Market Research</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 270-001</td>
<td>Corporate Finance</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
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<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 271-001</td>
<td>Investment Theory</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 272-001</td>
<td>Investment Theory</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 287-001</td>
<td>Entrepreneurial Finance</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 437-001</td>
<td>Database Technology</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>COEC 475-001</td>
<td>The Economics &amp; Policy of the Environment, Energy, and Natural Resources</td>
<td>3</td>
<td>12:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>COEC 387-001</td>
<td>Strategic Management</td>
<td>3</td>
<td>3:00 p.m.</td>
<td>Mon Wed</td>
<td>Online Learning</td>
<td></td>
<td>W1 311-011, 311-025</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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</table>
COGS_V 407-002 COGS_V 407 002 New Enterprise Development W2 The particulars 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 COMM 498. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 497, COMM 498.
In Person Learning Mon Wed 5:00 p.m. - 6:30 p.m.

COGS_V 408-001 COGS_V 408 001 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: COMM 498.
In Person Learning Mon Wed 3:30 p.m. - 5:00 p.m.

COGS_V 300-101 COGS_V 300 101 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 9:30 a.m. - 11:00 a.m.

COGS_V 300-201 COGS_V 300 201 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. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Tue Thu 10:00 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. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Tue Thu 11:00 a.m. - 12:30 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. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Mon 3:00 p.m. - 5:00 p.m.

COGS_V 300-102 COGS_V 300 102 Understanding and Designing Cognitive Systems W1 Theory and methods for integrating diverse disciplinary content in cognitive systems. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Wed 1:00 p.m. - 3:30 p.m.

COGS_V 300-103 COGS_V 300 103 Understanding and Designing Cognitive Systems W1 Theory and methods for integrating diverse disciplinary content in cognitive systems. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Fri 10:00 a.m. - 12:00 p.m.

COGS_V 300-105 COGS_V 300 105 Understanding and Designing Cognitive Systems W2 Theory and methods for integrating diverse disciplinary content in cognitive systems. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Mon 3:00 p.m. - 5:00 p.m.

COGS_V 300-106 COGS_V 300 106 Understanding and Designing Cognitive Systems W2 Theory and methods for integrating diverse disciplinary content in cognitive systems. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Wed 3:00 p.m. - 5:00 p.m.

COGS_V 300-107 COGS_V 300 107 Understanding and Designing Cognitive Systems W2 Theory and methods for integrating diverse disciplinary content in cognitive systems. (2-2-0) Prerequisite: COGS 300. And 3 credits of CPSC.
In Person Learning Fri 10:00 a.m. - 12:00 p.m.

COGS_V 300-101 COGS_V 300 101 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. - 3:00 p.m.

COGS_V 300-102 COGS_V 300 102 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 300-201 COGS_V 300 201 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. - 6:00 p.m.

COGS_V 300-202 COGS_V 300 202 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. (3-0-0) 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. (3-0-0) 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. (3-0-0) 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. (3-0-0) 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. (3-0-0) 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. (3-0-0) Prerequisite: COGS 300. COGS 401 is recommended.
In Person Learning Arranged Arranged

COGS_V 403-101 COGS_V 403 101 Research in Cognitive Systems W1 Supervised research project in a Cognitive Systems-related laboratory. (3-0-0) Prerequisite: COGS 300. COGS 401 is recommended.
In Person Learning Arranged Arranged
COGS_V 402 201 Research in Cognitive Systems W2 Supervised research project in a Cognitive Systems related laboratory. [3-0-0] 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. [3-0-0] Prerequisite: COMM 201. In Person Learning Mon Wed 11:00 a.m. - 2:30 p.m.

COHR_V 304-101 COHR_V 304 101 Training, Development, and Performance Management W2 Employee training, development and performance management is 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. [3-0-0] Prerequisite: COMM 203. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COHR_V 305-101 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. [3-0-0] 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. [3-0-0] Prerequisite: COMM 203. In Person Learning Arranged Arranged

COHR_V 455-101 COHR_V 455 201 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. [3-0-0] Prerequisite: COMM 203. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COHR_V 460-201 COHR_V 460 201 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. [3-0-0] Prerequisite: COMM 203. In Person Learning Arranged Arranged

COHR_V 433-101 COHR_V 433 201 Employee 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. [3-0-0] Prerequisite: All of COMM 280, COMM 399. In Person Learning Fri 12:30 p.m. - 3:30 p.m.

COX_V 521-001 COX_V 521 001 Corpus Linguistics W1 Describe, compare, and apply the main theories used in corpus linguistics, using quantitative and qualitative corpora, to perform electronic 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. Prerequisite: All of DSCI 511, DSCI 551. In Person Learning Mon Wed 8:00 a.m. - 10:30 a.m.

COX_V 523-001 COX_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, DSCI 551. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

COX_V 523-601 COX_V 523 601 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, DSCI 551. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

COX_V 525-001 COX_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. [3-0-0] Prerequisite: COMM 203. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COX_V 525-101 COX_V 525 101 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. [3-0-0] Prerequisite: COMM 203. In Person Learning Wed 11:00 a.m. - 12:30 p.m.

COX_V 525-102 COX_V 525 102 Computational Morphology W2 Identification of 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. [3-0-0] Prerequisite: COMM 203. In Person Learning 4:00 p.m. - 6:00 p.m.

COX_V 531-001 COX_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 575. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COX_V 531-101 COX_V 531 101 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 575. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COX_V 531-102 COX_V 531 102 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 575. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COX_V 535-001 COX_V 535 001 Parsing for Computational Linguistics W2 Methods of natural language parsing: finite state approaches, class-based language models, part-of-speech tagging, 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, COX_V 525. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COX_V 535-101 COX_V 535 101 Parsing for Computational Linguistics W2 Methods of natural language parsing: finite state approaches, class-based language models, part-of-speech tagging, 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. In Person Learning Wed 2:00 p.m. - 4:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Credits</th>
<th>Time</th>
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<td>COLX 535-102</td>
<td>Parsing for Computational Linguistics</td>
<td>W2</td>
<td>SIS</td>
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<td>COLX 561-001</td>
<td>Computational Semantics</td>
<td>W2</td>
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<td>COLX 561-011</td>
<td>Advanced Computational Semantics</td>
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<td>COLX 561-012</td>
<td>Statistical and neural approaches for natural language meaning in computational semantics</td>
<td>W2</td>
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<td>COLX 563-012</td>
<td>Statistical and neural approaches for natural language meaning in computational semantics</td>
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<td>COLX 565-001</td>
<td>Sentiment Analysis</td>
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<td>COLX 581-001</td>
<td>Natural Language Processing for Low-Resource Languages</td>
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<td>Natural Language Processing for Low-Resource Languages</td>
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<td>COLX 581-001</td>
<td>Trends in Computational Linguistics</td>
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<td>COLX 581-011</td>
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<td>COMM 101-207</td>
<td>Business Fundamentals</td>
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<td>L02</td>
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**Course Descriptions**

- **Business Fundamentals**
  - In Person Learning
  - Mon, Wed, Fri, 4:00 p.m. - 6:00 p.m.
  - Prerequisite: All of DSCI 511, DSCI 551, COLX 521.
  - This course is not eligible for Credit/D/Fail grading.

- **Computational Semantics**
  - In Person Learning
  - Mon, Wed, Fri, 4:00 p.m. - 6:00 p.m.
  - Restricted to students in the M.D.S. program with Computational Linguistics option.
  - This course is not eligible for Credit/D/Fail grading.

- **Advanced Computational Semantics**
  - In Person Learning
  - Mon, Wed, Fri, 4:00 p.m. - 6:00 p.m.
  - Restricted to students in the M.D.S. program with Computational Linguistics option.
  - This course is not eligible for Credit/D/Fail grading.

- **Sentiment Analysis**
  - In Person Learning
  - Mon, Wed, Fri, 4:00 p.m. - 6:00 p.m.
  - Restricted to students in the M.D.S. program with Computational Linguistics option.
  - This course is not eligible for Credit/D/Fail grading.

- **Natural Language Processing for Low-Resource Languages**
  - In Person Learning
  - Mon, Wed, Fri, 4:00 p.m. - 6:00 p.m.
  - Restricted to students in the M.D.S. program with Computational Linguistics option.
  - This course is not eligible for Credit/D/Fail grading.

- **Trends in Computational Linguistics**
  - In Person Learning
  - Mon, Wed, Fri, 4:00 p.m. - 6:00 p.m.
  - Restricted to students in the M.D.S. program with Computational Linguistics option.
  - This course is not eligible for Credit/D/Fail grading.

**Course Notes**

- All courses are eligible for Credit/D/Fail grading except where noted.
- Prerequisites vary by course, please check the catalog for more information.
- This course is not eligible for Credit/D/Fail grading.
In Person Learning 2:00 p.m. - 3:00 p.m. 101 D13

In Person Learning Fri 101 105 D12

Business Fundamentals 11:00 a.m. - 12:30 p.m. In Person Learning 101 W2 D20 D04

Business Fundamentals Fri 101 In Person Learning 101 D16 D01

4:00 p.m. - 5:00 p.m. In Person Learning W2 W1 101 W2 Mon Wed 101 In Person Learning D07 W2 Fri

Values, Ethics, and Community D18 Fri D08 101 In Person Learning D09 Fri In Person Learning Fri W2 105 D02 Fri 103 101 Fri In Person Learning Fri 11:00 a.m. - 12:00 p.m. D15 Business Fundamentals 2:00 p.m. - 3:00 p.m. 12:00 p.m. - 1:00 p.m. 10:00 a.m. - 11:00 a.m. 101 Business Fundamentals Fri 1:00 p.m. - 2:00 p.m. W2 Business Fundamentals 3:00 p.m. - 4:00 p.m. Fri 1:00 p.m. - 2:00 p.m. W2 Business Fundamentals D21 9:00 a.m. - 10:00 a.m. W2 Fri 11:00 a.m. - 12:00 p.m. W2 102 Business Fundamentals Values, Ethics, and Community 9:00 a.m. - 10:00 a.m. Business Fundamentals Business Fundamentals D03 In Person Learning W1 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.

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 Fri 8:00 a.m. - 9:30 a.m.

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 Fri 8:00 a.m. - 10:00 a.m.

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 Fri 10:00 a.m. - 11:00 a.m.

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 Fri 8:00 a.m. - 9:30 a.m.

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 Fri 9:00 a.m. - 10:00 a.m.

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 Fri 10:00 a.m. - 11:00 a.m.

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 Fri 11:00 a.m. - 12:00 p.m.

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 Fri 12:00 p.m. - 1:00 p.m.

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 Fri 1:00 p.m. - 2:00 p.m.

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 Fri 2:00 p.m. - 3:00 p.m.

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 Fri 3:00 p.m. - 4:00 p.m.

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 Fri 4:00 p.m. - 5:00 p.m.

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 Fri 5:00 p.m. - 6:00 p.m.

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 Fri 6:00 p.m. - 7:00 p.m.

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 Fri 7:00 p.m. - 8:00 p.m.

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 Fri 8:00 p.m. - 9:00 p.m.

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 Fri 9:00 p.m. - 10:00 p.m.

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 Fri 10:00 p.m. - 11:00 p.m.
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.

Values, Ethics, and Community

9:30 a.m. - 11:00 a.m.

In Person Learning

Fri

12:30 p.m. - 2:00 p.m.

In Person Learning

Tue Thu

D06

Values, Ethics, and Community

Fri

203

1:00 p.m. - 2:00 p.m.

3:30 p.m. - 5:00 p.m.

W1

Values, Ethics, and Community

Values, Ethics, and Community

108

Values, Ethics, and Community

105

D05

105

In Person Learning

8:00 a.m. - 9:30 a.m.

W2

In Person Learning

11:00 a.m. - 12:30 p.m.

105

Fri

W1

105

9:30 a.m. - 11:00 a.m.

D09

In Person Learning

105

D03

112

W1

105

3:00 p.m. - 4:00 p.m.

105

Fri

W1

105

105

In Person Learning

11:00 a.m. - 12:30 p.m.

105

111

W1

105

3:30 p.m. - 5:00 p.m.

105

Fri

W1

105

2:00 p.m. - 3:30 p.m.

105

Fri

W1

105

2:30 p.m. - 4:30 p.m.

105

Fri

W1

105

1:00 p.m. - 2:00 p.m.

110

Values, Ethics, and Community

Values, Ethics, and Community

105

Values, Ethics, and Community

105

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.

Values, Ethics, and Community

105

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.

Values, Ethics, and Community

105
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.

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.
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

W2 120 004 Business Immersion

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.

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.

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.
Introduction to Quantitative Decision Making

In Person Learning

3:00 p.m. - 4:00 p.m.

Thu

W1

L12

190

Introduction to Quantitative Decision Making

3:00 p.m. - 4:00 p.m.

Thu

W1

L10

190

Introduction to Quantitative Decision Making

10:00 a.m. - 11:00 a.m.

Thu

W1

L19

190

Introduction to Quantitative Decision Making

11:00 a.m. - 12:00 p.m.

Thur

W1

L22

190

Introduction to Quantitative Decision Making

1:00 p.m. - 2:00 p.m.

Fri

190

1:00 p.m. - 2:00 p.m.

Fri

190

12:00 p.m. - 1:00 p.m.

L14

L11

184. Equivalency: COMM290

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.

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.

Computer: One of MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290

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.

Computer: One of MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290

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.

Computer: One of MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290

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.

Computer: One of MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290

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.

Computer: One of MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290

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.

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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.

Computer: One of MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290

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.

Computer: One of MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM290
In Person Learning

9:30 a.m. - 11:00 a.m.

8:00 a.m. - 9:30 a.m.

W1

190

In Person Learning

W2

102

In Person Learning

W2

Application of Statistics in Business

Fri

In Person Learning

Introduction to Quantitative Decision Making

W1

In Person Learning

191

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

Fri

Mon Wed

W1

191

W1

191

Tue Thu

Mon Wed

W1

202

191

Mon Wed

204

Fri

L25

W1

192

L26

Mon Wed

204

Fri

L25

190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

Fri

Mon Wed

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W1

191

Tue Thu

Mon Wed

W1

202

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Mon Wed

204

Fri

L25

W1

192

L26

Mon Wed

204

Fri

L25

190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

Fri

Mon Wed

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Tue Thu

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190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

Fri

Mon Wed

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190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

Fri

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190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

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190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

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190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.

2:00 p.m. - 3:00 p.m.

Fri

Mon Wed

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Tue Thu

Mon Wed

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Mon Wed

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Fri

L25

W1

192

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Mon Wed

204

Fri

L25

190

9:30 a.m. - 11:00 a.m.

9:30 a.m. - 11:00 a.m.
An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-101 COMM 196-101 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-102 COMM 196-102 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-103 COMM 196-103 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-104 COMM 196-104 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-105 COMM 196-105 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-106 COMM 196-106 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-107 COMM 196-107 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-108 COMM 196-108 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-109 COMM 196-109 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-110 COMM 196-110 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-111 COMM 196-111 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-112 COMM 196-112 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.

COMM 196-113 COMM 196-113 Business Communications i W1 An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292.
An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed  8:00 a.m. - 9:30 a.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed  12:00 a.m. - 12:30 p.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed  12:30 p.m. - 2:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed  2:00 p.m. - 3:30 p.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed  3:30 p.m. - 5:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Fri  8:00 a.m. - 9:30 a.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Fri  9:30 a.m. - 11:00 a.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Fri  11:00 a.m. - 12:30 p.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu  8:00 a.m. - 9:30 a.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu  9:30 a.m. - 11:00 a.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu  11:00 a.m. - 12:30 p.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu  2:00 p.m. - 3:30 p.m.

An activity-focused course providing the opportunity to study and practice forms of written and non-written communication needed in business. Credit will be granted for only one of COMM 196 or COMM 395. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu  3:30 p.m. - 5:00 p.m.

Career Fundamentals

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning Wed  4:00 p.m. - 5:00 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning Wed  5:00 p.m. - 6:00 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning Fri  2:00 p.m. - 3:30 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning Fri  2:00 p.m. - 3:30 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning Wed  5:00 p.m. - 6:00 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning Wed  11:00 a.m. - 12:00 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning Fri  12:00 p.m. - 1:00 p.m.
Career Fundamentals includes effective resume and cover letter writing, performing well in interviews, and learning about the recruiting cycles, networking and resources available at the Ivey & Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Fri 8:00 a.m. - 9:00 a.m.
Mon 9:00 a.m. - 10:00 a.m.
Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon
12:00 p.m. - 1:00 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon
1:00 p.m. - 2:00 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon
3:00 p.m. - 4:00 p.m.

Fundamentals of career management including effective resume and cover letter writing, performing well in interviews and learning about the recruiting cycles, networking and resources available at the Hari B. Varshney Business Career Centre. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon
6:00 p.m. - 7:00 p.m.
Managing the Employment Relationship  

Mon Wed  
Logistics and Operations Management  

204  
W2  
2:00 p.m. - 3:30 p.m.  
Managing the Employment Relationship  

203-202  
COMM_V  
W2  
204  
Managing the Employment Relationship  

W2  
In Person Learning  
Mon Wed  
9:30 a.m. - 11:00 a.m.  
Managing the Employment Relationship  

W2  
In Person Learning  
Mon Wed  
12:30 p.m. - 2:00 p.m.  
Managing the Employment Relationship  

W2  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.  
Managing the Employment Relationship  

W2  
In Person Learning  
Tue Thu  
2:00 p.m. - 2:30 p.m.  
Managing the Employment Relationship  

W2  
In Person Learning  
Tue Thu  
3:30 p.m. - 5:00 p.m.  
Managing the Employment Relationship  

W2  
In Person Learning  
Tue Thu  
6:30 p.m. - 8:00 p.m.  
Managing the Employment Relationship  

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In Person Learning  
Tue Thu  
3:30 p.m. - 5:00 p.m.  
Managing the Employment Relationship  

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6:30 p.m. - 8:00 p.m.  
Managing the Employment Relationship  

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Managing the Employment Relationship  

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3:30 p.m. - 5:00 p.m.  
Managing the Employment Relationship  

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In Person Learning  
Tue Thu  
6:30 p.m. - 8:00 p.m.  
Managing the Employment Relationship  

W2  
In Person Learning  
Tue Thu  
3:30 p.m. - 5:00 p.m. 

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. 

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.

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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.

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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.
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.

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
12:00 p.m. - 2:00 p.m.

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.

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.

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  Tue Thu
8:00 a.m. - 9:30 a.m.

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  Tue Thu
10:30 a.m. - 12:00 p.m.

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  Tue Thu
5:00 p.m. - 6:30 p.m.

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  Tue Thu
5:00 p.m. - 6:30 p.m.

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  Tue Thu
2:00 p.m. - 3:30 p.m.

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  Tue Thu
3:30 p.m. - 5:00 p.m.

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  Tue Thu
6:30 p.m. - 8:00 p.m.

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  Tue Thu
6:30 p.m. - 8:00 p.m.

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  Tue Thu
6:30 p.m. - 8:00 p.m.

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  Tue Thu
6:30 p.m. - 8:00 p.m.

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  Tue Thu
6:30 p.m. - 8:00 p.m.

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  Tue Thu
6:30 p.m. - 8:00 p.m.
Course is not eligible for Credit/D/Fail grading. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 301. 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. Prerequisite: Either ECON 100 or (b) all of ECON 101, ECON 102.

Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for only one of COMM 296, COMM 424, COMM 463, or COMM 465. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COEC 293, COMM 293. Equivalency: COEC 294.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>COMM/V</th>
<th>Course Title</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM/V 296-201</td>
<td>296</td>
<td>Introduction to Finance</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 365. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298</td>
</tr>
<tr>
<td>COMM/V 296-202</td>
<td>296</td>
<td>Introduction to Finance</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 365. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298</td>
</tr>
<tr>
<td>COMM/V 296-203</td>
<td>296</td>
<td>Introduction to Finance</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 365. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298</td>
</tr>
<tr>
<td>COMM/V 296-204</td>
<td>296</td>
<td>Introduction to Finance</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 365. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298</td>
</tr>
<tr>
<td>COMM/V 296-205</td>
<td>296</td>
<td>Introduction to Finance</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 365. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298</td>
</tr>
<tr>
<td>COMM/V 296-206</td>
<td>296</td>
<td>Introduction to Finance</td>
<td>12:00 p.m. - 1:30 p.m.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. Corequisite: COMM 293 and one of COMM 295, ECON 201, ECON 365. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298, Credit/D/Fail grading. [3-0-0] Corequisite: COMM 293 and one of COMM 190, COMM 290 and one of COMM 296, COMM 421, COMM 473, or COMR 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298</td>
</tr>
</tbody>
</table>

**Course Description:**
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 296, COMM 420, COMM 465, or COMR 465. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC298.
<table>
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<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>COMM 299-201</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Examines economic factors affecting the urban real estate 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, COMM 296, COMM 297, COMM 301, and one of COMM 295, COMM 296. Equivalency: COMM 229.</td>
</tr>
<tr>
<td>COMM 230-201</td>
<td>Urban Land Economics</td>
<td>W2</td>
<td>Examines economic factors affecting the urban real estate 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, COMM 296, COMM 297, COMM 301, and one of COMM 295, COMM 296. Equivalency: COMM 229.</td>
</tr>
<tr>
<td>COMM 230-202</td>
<td>Urban Land Economics</td>
<td>W2</td>
<td>Examines economic factors affecting the urban real estate 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, COMM 296, COMM 297, COMM 301, and one of COMM 295, COMM 296. Equivalency: COMM 229.</td>
</tr>
<tr>
<td>COMM 297-101</td>
<td>Real Estate Investment</td>
<td>W1</td>
<td>Examination of 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, COMM 296, COMM 301, and one of COMM 295, COMM 296.</td>
</tr>
<tr>
<td>COMM 297-102</td>
<td>Real Estate Investment</td>
<td>W1</td>
<td>Examination of 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, COMM 296, COMM 301, and one of COMM 295, COMM 296.</td>
</tr>
<tr>
<td>COMM 297-103</td>
<td>Real Estate Investment</td>
<td>W1</td>
<td>Examination of 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, COMM 296, COMM 301, and one of COMM 295, COMM 296.</td>
</tr>
<tr>
<td>COMM 312-101</td>
<td>Business Ethics Leadership</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>COMM 312-201</td>
<td>Business Ethics Leadership</td>
<td>W2</td>
<td>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.</td>
</tr>
<tr>
<td>COMM 314-101</td>
<td>Strategies for Responsible Business</td>
<td>W1</td>
<td>Tools to apply sustainable and responsible decisions making through individual, organizational, and structural lenses. Topics include diversity and groupthink, the circular economy, and climate change adaptation. This course is not eligible for Credit/D/Fail grading.</td>
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<td>COMM 314-201</td>
<td>Strategies for Responsible Business</td>
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</tr>
<tr>
<td>COMM 320-001</td>
<td>Foundations in Accounting</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>COMM 320-002</td>
<td>Foundations in Accounting</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>COMM 320-003</td>
<td>Foundations in Accounting</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>COMM 320-004</td>
<td>Foundations in Accounting</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>COMM 321-001</td>
<td>Organizational Behavior</td>
<td>W1</td>
<td>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.</td>
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<td>COMM 321-002</td>
<td>Organizational Behavior</td>
<td>W2</td>
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</tr>
<tr>
<td>COMM 323-101</td>
<td>Leading Diversity, Equity and Inclusion in Organizations</td>
<td>W1</td>
<td>Topics in diversity related to identity, group construction, 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 229.</td>
</tr>
<tr>
<td>COMM 324-201</td>
<td>People Analytics</td>
<td>W2</td>
<td>Application of descriptive and inferential statistics to decisions in core human resource (HR) issues, 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 201, COMM 201L, COMM 205.</td>
</tr>
<tr>
<td>COMM 325-101</td>
<td>Information Systems Technology and Development</td>
<td>W1</td>
<td>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 295, CPSC 210.</td>
</tr>
<tr>
<td>COMM 325-102</td>
<td>Information Systems Technology and Development</td>
<td>W1</td>
<td>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 295, CPSC 210.</td>
</tr>
<tr>
<td>COMM 325-201</td>
<td>Information Systems Technology and Development</td>
<td>W1</td>
<td>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 295, CPSC 210.</td>
</tr>
</tbody>
</table>
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 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291. 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.

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 297 and CPSC 103. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

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 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291. 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.

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. 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.

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. 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.

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. 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.

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. 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.

A study of income tax from the standpoint of the individual and business enterprises. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205, COMM 847.

In Person Learning
Mon Wed
W1
5:00 p.m. - 6:30 p.m.
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

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: COMM296.

Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive responses. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM296.

Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive responses. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM296.

Analytical methods applicable to marketing management decision making; attention to strategic considerations linking analysis of consumer data, corporate data, environmental factors, and competitive responses. The course makes extensive use of micro computers. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM296.

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: COMM296 and one of COMM190, COMM290 and one of COMM191, COMM291.

The use of computer 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: COMM296.

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: COMM296 and one of COMM190, COMM290 and one of COMM191, COMM291.

The use of computer 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: COMM296.

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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.
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 298. 

**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.** 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

**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**

**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**

**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**

**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**

**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**

**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**

**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**

**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**
COMM_V 374-204 COMM_V 274 204 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 274 205 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 10:00 a.m. - 12:30 p.m.

COMM_V 374-206 COMM_V 274 206 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 377-207 COMM_V 274 207 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 Mon Wed 2:00 p.m. - 3:00 p.m.

COMM_V 377-101 COMM_V 275 101 Behavioral 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. Prerequisite: COMM 306. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

COMM_V 377-201 COMM_V 276 201 Behavioral 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. Prerequisite: COMM 306. In Person Learning Mon Wed 12:30 p.m. - 1:00 p.m.

COMM_V 377-101 COMM_V 277 101 International Financial Markets and Institutions W1 The roles and operation of financial institutions, 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 306. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COMM_V 377-201 COMM_V 277 201 International Financial Markets and Institutions W2 The roles and operation of financial institutions, 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 306. In Person Learning Mon Wed 12:30 p.m. - 2:00 p.m.

COMM_V 380-602 COMM_V 380 602 Co-operative Work Placement I W1 Approval 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. Prerequisite: COMM 306. In Person Learning Arranged Arranged

COMM_V 380-602 COMM_V 380 602 Co-operative Work Placement I W2 Approval 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. Prerequisite: COMM 306. In Person Learning Arranged Arranged

COMM_V 381-601 COMM_V 381 601 Co-operative Work Placement II W1 Approval 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: COMM 306. In Person Learning Arranged Arranged

COMM_V 381-602 COMM_V 381 602 Co-operative Work Placement II W2 Approval 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: COMM 306. 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 COMM 382. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 306. 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 COMM 382. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 306. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

COMM_V 386_C-201 COMM_V 386 C C_C_201 Topics in Business III W2 This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 386. In Person Learning Fri 9:30 a.m. - 12:30 p.m.

COMM_V 386-I-201 COMM_V 386 I I_I_201 Topics in Business III W2 This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 386. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

COMM_V 386-I-201 COMM_V 386 I I_I_201 Topics in Business III W2 This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 386. In Person Learning Mon Wed 12:30 p.m. - 2:00 p.m.

COMM_V 386_M-101 COMM_V 386 M M_M_101 Topics in Business III W1 This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 386. In Person Learning Fri 9:00 a.m. - 12:00 p.m.

COMM_V 386-P-201 COMM_V 386 P P_P_201 Topics in Business III W1-2 This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 386. In Person Learning Fri (alternate weeks) 12:30 p.m. - 2:00 p.m.

COMM_V 386-T-101 COMM_V 386 T T_T_101 Topics in Business III W1 This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 386. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Title</th>
<th>Notes</th>
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<tr>
<td>COMM_V 386</td>
<td>T_201</td>
<td>T</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Topics in Business III</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM386</td>
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<tr>
<td>COMM_V 386</td>
<td>U_101</td>
<td>U</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Topics in Business III</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM386</td>
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<tr>
<td>COMM_V 387</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Entrepreneurial Finance and Private Equity</td>
<td>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 COMM 187. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC387, COMM187</td>
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<tr>
<td>COMM_V 387</td>
<td>102</td>
<td>W2</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Entrepreneurial Finance and Private Equity</td>
<td>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 COMM 187. This course is not eligible for Credit/D/Fail grading. Equivalency: COEC387, COMM187</td>
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<tr>
<td>COMM_V 388</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Design Methods for Business Innovation</td>
<td>Studio-based experience in thinking strategies and design processes applied to business innovation for external clients in a collaborative environment. Credit will be granted for only one of COMM 388 and COMM 388. Equivalency: COMM388</td>
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<td>COMM_V 388</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Design Methods for Business Innovation</td>
<td>The role and importance of creativity in developing successful business solutions. Credit will be granted for only one of COMM 388 and COMM 388. Equivalency: COMM388</td>
</tr>
<tr>
<td>COMM_V 389</td>
<td>201</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Creativity in Business</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>102</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<td>COMM_V 393</td>
<td>103</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>104</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<td>COMM_V 393</td>
<td>105</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>106</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>107</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<td>COMM_V 393</td>
<td>108</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>109</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<td>COMM_V 393</td>
<td>202</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>203</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<td>COMM_V 393</td>
<td>204</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<td>COMM_V 393</td>
<td>205</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>206</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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<tr>
<td>COMM_V 393</td>
<td>207</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Commercial Law</td>
<td>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.</td>
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</table>
In Person Learning

Tue Thu
3:30 p.m. - 5:00 p.m.

W2

Environment, Society, and Government

W2

In Person Learning

Tue Thu
9:30 a.m. - 11:00 a.m.

W2

Environment, Society, and Government

W2

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Tue Thu
2:00 p.m. - 3:30 p.m.

W2

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Tue Thu
3:30 p.m. - 5:00 p.m.

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In Person Learning

Tue Thu
11:00 a.m. - 12:30 p.m.

W2

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Environment, Society, and Government

W2

In Person Learning

Tue Thu
3:30 p.m. - 5:00 p.m.
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<th>Course Code</th>
<th>Section</th>
<th>Credits</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Delivery</th>
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<tr>
<td>COMM 394-207</td>
<td>W2</td>
<td>0.64</td>
<td>Environment, Society, and Government</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>COMM 394-208</td>
<td>W2</td>
<td>0.64</td>
<td>Environment, Society, and Government</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>COMM 394-209</td>
<td>W2</td>
<td>0.64</td>
<td>Environment, Society, and Government</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>COMM 395-101</td>
<td>W1</td>
<td>0.64</td>
<td>Business Communications</td>
<td>Tue Thu</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>COMM 395-102</td>
<td>W1</td>
<td>0.64</td>
<td>Business Communications</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>COMM 395-103</td>
<td>W1</td>
<td>0.64</td>
<td>Business Communications</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>COMM 395-104</td>
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<td>Business Communications</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<td>W1</td>
<td>0.64</td>
<td>Business Communications</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>114</td>
<td>Tue Thu 2:00 p.m. - 3:30 p.m.</td>
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<td>210</td>
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<td>Real Estate Finance 405</td>
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<td>Real Estate Finance 405</td>
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<td>COMM V 407-201</td>
<td>Real Estate Economics 407</td>
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<td>In Person Learning  Tue Thu 10:00 a.m. - 12:30 p.m.</td>
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<td>Real Estate Economics 407</td>
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<td>Real Estate Development 408</td>
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<td>Dual Degree Year 4 at University of Hong Kong 411</td>
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<td>Regulation 412</td>
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Data Visualization and Business Analytics

- W1 9:30 a.m. - 11:00 a.m. Data Visualization and Business Analytics
  - W2 9:30 a.m. - 11:00 a.m. Data Visualization and Business Analytics
  - W2 3:30 p.m. - 5:00 p.m. Data Visualization and Business Analytics

Introduction to Business Analytics

- W1 9:30 a.m. - 11:00 a.m. Introduction to Business Analytics
  - W2 9:30 a.m. - 11:00 a.m. Introduction to Business Analytics
  - W2 3:30 p.m. - 5:00 p.m. Introduction to Business Analytics

Quantitative Policy Analysis

- W1 9:30 a.m. - 11:00 a.m. Quantitative Policy Analysis
  - W2 9:30 a.m. - 11:00 a.m. Quantitative Policy Analysis
  - W2 3:30 p.m. - 5:00 p.m. Quantitative Policy Analysis

Information Systems Analysis and Design

- W1 11:00 a.m. - 12:30 p.m. Information Systems Analysis and Design
  - W2 11:00 a.m. - 12:30 p.m. Information Systems Analysis and Design
  - W2 6:00 p.m. - 9:00 p.m. Information Systems Analysis and Design

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. Prerequisite: COMM 204.

Risk management, decision trees, and descriptive event simulation. This course is not eligible for Credit/D/Fail grading.

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.

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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
8:00 a.m. - 9:30 a.m.
Arranged
445
101
Information Systems Analysis and Design
Management of Information Systems

11:00 a.m. - 12:30 p.m.
438
Database Technology

2:00 p.m. - 3:30 p.m.
Tue Thu
W2
202
Management of Information Systems

W1
101
Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

2:00 p.m. - 3:30 p.m.
In Person Learning

2:00 p.m. - 3:30 p.m.
In Person Learning

W1
101
Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

10:30 a.m. - 12:00 p.m.
In Person Learning

9:30 a.m. - 11:00 a.m.
In Person Learning

W2
101
Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

2:00 p.m. - 3:30 p.m.
In Person Learning

2:00 p.m. - 3:30 p.m.
In Person Learning

W1
101
Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

9:30 a.m. - 11:00 a.m.
In Person Learning
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<th>Type</th>
<th>Notes</th>
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<td>COMM 450-201</td>
<td>Supply-Chain Management</td>
<td>Mon Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue Thu 10:00 a.m. - 12:30 p.m.</td>
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<td>COMM 450-202</td>
<td>Supply-Chain Management</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue Thu 12:30 p.m. - 2:00 p.m.</td>
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<td>COMM 450-203</td>
<td>Supply-Chain Management</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<td>COMM 450-101</td>
<td>Financial Accounting - Intermediate II</td>
<td>101</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>COMM 450-102</td>
<td>Financial Accounting - Intermediate II</td>
<td>102</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<td>Financial Accounting - Intermediate II</td>
<td>103</td>
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<td>COMM 450-201</td>
<td>Financial Accounting - Intermediate II</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>COMM 450-101</td>
<td>Accounting for Management Control and Incentives</td>
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<td>8:00 a.m. - 9:30 a.m.</td>
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<td>COMM 450-201</td>
<td>Accounting for Management Control and Incentives</td>
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<td>COMM 450-202</td>
<td>Accounting for Management Control and Incentives</td>
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<td>COMM 450-101</td>
<td>Principles of Auditing</td>
<td>101</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<td>COMM 450-102</td>
<td>Principles of Auditing</td>
<td>102</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<td>COMM 450-201</td>
<td>Principles of Auditing</td>
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<td>11:00 a.m. - 12:30 p.m.</td>
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<td>COMM 450-202</td>
<td>Principles of Auditing</td>
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<td>COMM 449-201</td>
<td>Financial Statement Analysis</td>
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<td>COMM 449-202</td>
<td>Financial Statement Analysis</td>
<td>202</td>
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<td>COMM 460-101</td>
<td>Social and Nonprofit Marketing</td>
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<td>COMM 461-101</td>
<td>Business Development</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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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: COMM 363.

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

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 sponsorship. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

Digital Marketing

W1 Investigation of Internet-based marketing, emphasizing customer-focused perspectives, competitive situation 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 9:30 a.m. - 11:00 a.m.

Digital Marketing

W2 Investigation of Internet-based marketing, emphasizing customer-focused perspectives, competitive situation 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 9:30 a.m. - 11:00 a.m.

New Venture Design

W1-2 Teams comprising students in COMM 466 and APSC 486 propose a new product or service prototype, and develop a business plan for the marketplace. Credit will be granted for only one of COMM 466, COMM 370, COMM 371, COMM 372, COMM 373, COMM 374, COMM 375.

In Person Learning Tue 6:00 p.m. - 9:00 p.m.

New Venture Design

W1-2 Teams comprising students in COMM 466 and APSC 486 propose a new product or service prototype, and develop a business plan for the marketplace. Credit will be granted for only one of COMM 466, COMM 370, COMM 371, COMM 372, COMM 373, COMM 374, COMM 375.

In Person Learning Tue 6:00 p.m. - 9:00 p.m.

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 Mon Wed 9:30 a.m. - 11:00 a.m.

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 Mon Wed 9:30 a.m. - 11:00 a.m.

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 Mon Wed 9:30 a.m. - 11:00 a.m.

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.

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.

Venture Capital

W2 Theory and evidence concerning venture capital markets, Contracting, fundraising, and financing choice covered in depth, with the aim of enabling 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 371.

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

Venture Capital

W2 Theory and evidence concerning venture capital markets, Contracting, fundraising, and financing choice covered in depth, with the aim of enabling 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 371.

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

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.

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.

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. Prerequisite: COMM 276.

In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

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. Prerequisite: COMM 276.

In Person Learning Tue Thu 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 10:00 a.m. - 12:20 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 Tue Thu 2:00 p.m. - 3:30 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 376. 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 G01 Co-operative Work Placement III W1 Approved and supervised work experience for a minimum of 10 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: COMM481. In Person Learning Arranged Arranged

COMM.V 480-602 COMM.V 480 G02 Co-operative Work Placement III W2 Approved and supervised work experience for a minimum of 10 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: COMM481. In Person Learning Arranged Arranged

COMM.V 481-601 COMM.V 481 G01 Co-operative Work Placement IV W1 Approved and supervised work experience for a minimum of 15 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: COMM481. In Person Learning Arranged Arranged

COMM.V 481-602 COMM.V 481 G02 Co-operative Work Placement IV W2 Approved and supervised work experience for a minimum of 15 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: COMM481. 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: COMM 486. In Person Learning Tue Thu 11:00 a.m. - 12:20 p.m.

COMM.V 483-202 COMM.V 483 202 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: COMM 486. 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. Prerequisite: COMM 374. In Person Learning Sun Sat 8:00 a.m. - 9:30 a.m.

COMM.V 484-201 COMM.V 484 201 Corporate Finance 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 485-101 COMM.V 485 101 Social Entrepreneurship W1 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 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: COMM486. 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: COMM486. 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: COMM486. 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: COMM486. 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: COMM486. 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: COMM486. 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: COMM486. In Person Learning Fri 9:30 a.m. - 12:30 p.m.

COMM.V 486-L_301 COMM.V 486 L L_301 Special Topics in Business W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: COMM486. 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: COMM486. In Person Learning Fri 9:00 a.m. - 12:00 p.m.
This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486

Directed Studies in Commerce

Arranged

Fri

T

W2

O

490

P

Strategic Management

490

W1

491

This course is not eligible for Credit/D/Fail grading. Equivalency: COMR486

Special Topics in Business

Strategic Management

Special Topics in Business

In Person Learning

In Person Learning

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2:00 p.m. - 3:30 p.m.

6:00 p.m. - 9:00 p.m.

3:30 p.m. - 5:00 p.m.

9:30 a.m. - 11:00 a.m.

10:00 a.m. - 12:30 p.m.

12:30 p.m. - 2:00 p.m.

2:00 p.m. - 3:30 p.m.

3:00 p.m. - 5:30 p.m.

4:00 p.m. - 6:30 p.m.

6:30 a.m. - 8:00 a.m.

8:00 a.m. - 10:00 a.m.

9:00 a.m. - 11:00 a.m.

10:00 a.m. - 12:30 p.m.

12:30 p.m. - 2:00 p.m.

2:00 p.m. - 3:30 p.m.

3:30 p.m. - 5:00 p.m.

4:00 p.m. - 6:30 p.m.

6:30 a.m. - 8:00 a.m.

8:00 a.m. - 10:00 a.m.

9:00 a.m. - 11:00 a.m.
In Person Learning

CONV_V 493-204 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. Methodological approaches to the economic and organizational theories 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 and (b) COMM 396. Fourth-year standing. Equivalency: COEC491

CONV_V 493-205 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. Methodological approaches to the economic and organizational theories 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 and (b) COMM 396. Fourth-year standing. Equivalency: COEC491

CONV_V 493-206 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. Methodological approaches to the economic and organizational theories 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 and (b) COMM 396. Fourth-year standing. Equivalency: COEC491

CONV_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 496, COMM 497, APSC 496 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

CONV_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 496, COMM 497, APSC 496 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

CONV_V 499-101 COMM_V 498 101 International Business Management W1 Development of general environmental frameworks 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

CONV_V 499-102 COMM_V 498 102 International Business Management W1 Development of general environmental frameworks 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

CONV_V 499-201 COMM_V 498 201 International Business Management W2 Development of general environmental frameworks 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

CONV_V 499-202 COMM_V 498 202 International Business Management W2 Development of general environmental frameworks 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

CONV_V 521-001 COMM_V 521 001 Introduction to Behavioural/Research Methods for Business W1 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

CONV_V 546-001 COMM_V 546 001 Seminar in Transportation Economics W1 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

CONV_V 547_A_001 COMM_V 547_A 001 Major Essay/Thesis Project W2 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

CONV_V 547_A_001 COMM_V 547_A 001 Major Essay/Thesis Project W2 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

CONV_V 547_B_001 COMM_V 547_B 001 Major Essay/Thesis Project W2 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

CONV_V 547_E_001 COMM_V 547_E 001 Directed Study in Business Administration W1 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

CONV_V 549_A_001 COMM_V 549_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. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491

CONV_V 549_A_002 COMM_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. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491

CONV_V 549_A_003 COMM_V 549_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. Prerequisite: Either (a) all of COMM 390, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COEC491
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Credit/D/Fail grading</th>
<th>Prerequisite</th>
<th>Registration Notes</th>
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<td>COMM 627-001</td>
<td>Advanced Behavioural Research Methods</td>
<td>0.00</td>
<td>No</td>
<td>At least nine graduate course credits in information system topics.</td>
<td>In Person Learning, Mon-Thurs Fri, 9:00 a.m. - 12:30 p.m.</td>
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<td>COMM 628-001</td>
<td>Organizational Studies Research Seminar</td>
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<td>COMM 633-001</td>
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<td>Empirical Research Methods in Information Systems</td>
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<td>COMM 634-003</td>
<td>Empirical Research Methods in Information Systems</td>
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<td>COMM 644-001</td>
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<td>COMM 644-002</td>
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<td>In Person Learning, Wed Thu Fri, 4:00 p.m. - 7:00 p.m.</td>
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<td>Course Title</td>
<td>Term</td>
<td>Location</td>
<td>Credits</td>
<td>Notes</td>
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<td>COMM_V 649-001</td>
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<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>COMM_V 649-002</td>
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<td>W1</td>
<td>In Person Learning</td>
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<td>W2</td>
<td>In Person Learning</td>
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<td>COMM_V 651-001</td>
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<td>W2</td>
<td>In Person Learning</td>
<td>Mon</td>
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<td>COMM_V 654-001</td>
<td>COMM_V 654-001</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>COMM_V 655-001</td>
<td>COMM_V 655-001</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>COMM_V 657-001</td>
<td>COMM_V 657-001</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>COMM_V 659-001</td>
<td>COMM_V 659-001</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>COMM_V 660-001</td>
<td>COMM_V 660-001</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>COMM_V 661-001</td>
<td>COMM_V 661-001</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>COMM_V 662-001</td>
<td>COMM_V 662-001</td>
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<td>In Person Learning</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>In Person Learning</td>
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<td>COMM_V 671-001</td>
<td>COMM_V 671-001</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>COMM_V 671-003</td>
<td>COMM_V 671-003</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>COMM_V 673-001</td>
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<td>In Person Learning</td>
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<td>COMM_V 673-002</td>
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<td>COMM_V 674-001</td>
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<td>W1</td>
<td>In Person Learning</td>
<td>Tue Wed Thu Fri</td>
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<td>COMM_V 676-001</td>
<td>COMM_V 676-001</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Credit will be granted for only one of COMM 695 or COMM 665. This course is not eligible for Credit/D/Fail grading.</td>
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<td>COMM_V 679-001</td>
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<td>COMM_V 682-001</td>
<td>COMM_V 682-001</td>
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<td>In Person Learning</td>
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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 9:30 a.m. - 12:30 p.m.

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 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 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 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 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.

COMM_V 102-201 COMM_V 110 W1 201 Introduction to Business

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 100. Credit will be granted for only one of COMM 100 or COMM 101. Equivalency: COMM 100.
In Person Learning  Mon Wed Fri 8:30 a.m. - 9:30 a.m.

COMM_V 186-A_101 COMM_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.

COMM_V 186-A_201 COMM_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.

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 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.

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 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.

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 COMR 280 or COMM 280. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM280.
In Person Learning  Tue Thu 2:30 p.m. - 5:00 p.m.

COMM_V 280-104 COMM_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.

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 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.

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 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.

COMM_V 329-101 COMM_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 100, 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.

COMM_V 329-102 COMM_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 100, 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.

COMM_V 329-103 COMM_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 100, 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.

COMM_V 329-104 COMM_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 100, 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

COMM_V 329-201 COMM_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 100, 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.

COMM_V 329-202 COMM_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 100, 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.

COMM_V 329-203 COMM_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 100, 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. - 6:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Schedule</th>
<th>Type</th>
<th>Room</th>
<th>In Person Learning</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMR_V 382-201</td>
<td>Entrepreneurial Finance and Private Equity</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
<td>Prerequisite of One of ECON 101, ECON 310, Corequisite of One of COMM 280, COMM 280.</td>
</tr>
</tbody>
</table>
Fundamentals of Financial Accounting

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 294, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457

In Person Learning Arranged Arranged

Fundamentals of Financial Accounting

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 294, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457

In Person Learning Arranged Arranged

Fundamentals of Financial Accounting

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 294, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457

In Person Learning Arranged Arranged

Fundamentals of Financial Accounting

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 294, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457

In Person Learning Arranged Arranged

Marketing Management

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 420, or COMM 473. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 473

In Person Learning Mon Wed Fri 2:30 p.m. - 3:30 p.m.
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 497. This course is not eligible for Credit/D/Fail grading. Prerequisite: Other (a) of ECON 101, ECON 102 or (b) ECON 200 or (c) ECON 310, ECON 311 or (d) of ECON 101, ECON 311 or (e) of ECON 102; ECON 310, and one of MATH 110, MATH 110, MATH 120, MATH 180, MATH 310.

Corequisite: One of COMM 293, COMM 457, COMM 457. Equivalency: COMM 473

Hybrid Learning

Wed

6:00 p.m. - 9:00 p.m.

COMM_V 202

473

102

102

102

102

COMM_V 482

482

201

201

201

201

New Product Development

9:00 a.m. - 10:00 a.m.

In Person Learning

Mon Wed Fri

9:00 a.m. - 10:00 a.m.

COMM_V 482-201

482

201

New Product Development

9:00 a.m. - 10:00 a.m.

In Person Learning

Mon Wed Fri

9:00 a.m. - 10:00 a.m.

COMM_V 482-202

482

202

New Product Development

2:00 p.m. - 3:30 p.m.

In Person Learning

Mon Wed Fri

2:00 p.m. - 3:30 p.m.

COMM_V 485-101

485

101

Social Entrepreneurship

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

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COMM_V 493-101

493

101

Strategic Management in Business

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In Person Learning

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9:00 a.m. - 10:00 a.m.

COMM_V 493-102

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102

Strategic Management in Business

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In Person Learning

Tue Thu

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COMM_V 493-101

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Strategic Management in Business

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In Person Learning

Tue Thu

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COMM_V 493-102

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Strategic Management in Business

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In Person Learning

Tue Thu

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COMM_V 493-101

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Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

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102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

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COMM_V 493-102

493

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Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

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Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-101

493

101

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.

COMM_V 493-102

493

102

Strategic Management in Business

9:00 a.m. - 10:00 a.m.

In Person Learning

Tue Thu

9:00 a.m. - 10:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Notes</th>
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<tbody>
<tr>
<td>CONS_V 127-101</td>
<td>Observing the Earth from Space</td>
<td>W1</td>
<td>Exploration of innovative Earth observation and other geospatial technologies and how they allow us to better understand the changing Earth. [3-0-0]</td>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 127-201</td>
<td>Observing the Earth from Space</td>
<td>W2</td>
<td>Exploration of innovative Earth observation and other geospatial technologies and how they allow us to better understand the changing Earth. [3-0-0]</td>
<td>In Person Learning Mon Fri 5:00 p.m. - 6:30 p.m.</td>
</tr>
<tr>
<td>CONS_V 200-001</td>
<td>Foundations of Conservation</td>
<td>W1</td>
<td>Conceptual/foundations of conservation; means of conserving natural and natural resources. [3-0-0]</td>
<td>In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 200-002</td>
<td>Foundations of Conservation</td>
<td>W2</td>
<td>Conceptual/foundations of conservation; means of conserving natural and natural resources. [3-0-0]</td>
<td>In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>CONS_V 310-101</td>
<td>Visualizing Climate Change</td>
<td>W1</td>
<td>Introduction to climate change through the lens of local landscapes and future scenarios, using visual media to communicate the underlying science &amp; psychology, and engage communities in local climate change solutions. [10]</td>
<td>In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 320-101</td>
<td>Issues in Genomics and the Environment</td>
<td>W1</td>
<td>Introduction to genomics in the context of genomics and epigenetics; current and historical topics, including genetic determinism, environmental DNA, novelty of extinct species, and applications of genomics to improve our life and environment including adaptation to climate change. [10] Prerequisite: One of BIOS 11, BIOS 12.</td>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>CONS_V 310-101</td>
<td>Ecology in a Changing Climate</td>
<td>W2</td>
<td>Impact of climate change on ecological systems. Build framework for understanding past and future changes following fundamental organizing units of ecology - individuals, populations, species, communities, and ecosystems. Prerequisite: One of BIOS 12, BIOS 226.</td>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>CONS_V 314-201</td>
<td>Elements of Biodiversity</td>
<td>W2</td>
<td>The units of biodiversity, from genes to ecosystems, how they are structured in space, and their impact to human well-being and ecosystem health. [3-1-0] Prerequisite: One of ARPS 200, BIOS 230, FST 201, NRES 201, GEOS 207. Equivalency: BIOS 314.</td>
<td>In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>CONS_V 314-T01</td>
<td>Elements of Biodiversity</td>
<td>W2</td>
<td>The units of biodiversity, from genes to ecosystems, how they are structured in space, and their impact to human well-being and ecosystem health. [3-1-0] Prerequisite: One of ARPS 200, BIOS 230, FST 201, NRES 201, GEOS 207. Equivalency: BIOS 314.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>CONS_V 314-T02</td>
<td>Elements of Biodiversity</td>
<td>W2</td>
<td>The units of biodiversity, from genes to ecosystems, how they are structured in space, and their impact to human well-being and ecosystem health. [3-1-0] Prerequisite: One of ARPS 200, BIOS 230, FST 201, NRES 201, GEOS 207. Equivalency: BIOS 314.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>CONS_V 330-201</td>
<td>Conservation Science and Sustainability</td>
<td>W2</td>
<td>Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [2-2-0] Prerequisite: One of BIOS 521, GEOS 102, GEOS 103. Second-year standing required.</td>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>CONS_V 330-101</td>
<td>Conservation Science and Sustainability</td>
<td>W2</td>
<td>Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [2-2-0] Prerequisite: One of BIOS 521, GEOS 102, GEOS 103. Second-year standing required.</td>
<td>In Person Learning Tue 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 330-102</td>
<td>Conservation Science and Sustainability</td>
<td>W2</td>
<td>Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [2-2-0] Prerequisite: One of BIOS 521, GEOS 102, GEOS 103. Second-year standing required.</td>
<td>In Person Learning Wed 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 330-103</td>
<td>Conservation Science and Sustainability</td>
<td>W2</td>
<td>Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [2-2-0] Prerequisite: One of BIOS 521, GEOS 102, GEOS 103. Second-year standing required.</td>
<td>In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 330-104</td>
<td>Conservation Science and Sustainability</td>
<td>W2</td>
<td>Fundamental concepts in conservation science. Different philosophies, perspectives, and disciplines used in setting priorities for managing biodiversity at all scales. [2-2-0] Prerequisite: One of BIOS 521, GEOS 102, GEOS 103. Second-year standing required.</td>
<td>In Person Learning Fri 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 330-201</td>
<td>Indigenous Forestry</td>
<td>W2</td>
<td>Principles, issues and ethics germane to working with and for Indigenous Nations or communities, including Indigenous rights and titles, relational values and natural resource governance. [3-0-0]</td>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>CONS_V 370-201</td>
<td>Indigenous Forestry</td>
<td>W2</td>
<td>Current concepts, methods, and applications of biogeochemical cycles with emphasis on biotic interactions in soil to understand the roles that soil and biogeochemical 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 312, ARPS 312, or FST 532. Prerequisite: Fourth-year standing in the Faculty of Forestry or a Bachelor of Science Program awarded by any Faculty. Equivalency: ARPS 412.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>CONS_V 330-201</td>
<td>Biogeochemical Cycles</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>CONS_V 412-101</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>W1</td>
<td>An introduction to policy and decision making for conserving biodiversity in an uncertain world using a combination of ecological data and decision science. [3-0-0] Prerequisite: (CONS200)</td>
<td>In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>CONS_V 412-101</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>W1</td>
<td>An introduction to policy and decision making for conserving biodiversity in an uncertain world using a combination of ecological data and decision science. [3-0-0] Prerequisite: (CONS200)</td>
<td>In Person Learning Wed 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>CONS_V 440-C_101</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>W1</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>CONS_V 440-C_151</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>W1</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>In Person Learning Arranged Arranged</td>
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<tr>
<td>CONS_V 440-C_201</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>W2</td>
<td>Directed Studies in Natural Resources Conservation</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
</tbody>
</table>
Directed Studies in Natural Resources Conservation

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.

Directed Studies in Natural Resources Conservation

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

Directed Studies in Natural Resources Conservation

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

Directed Studies in Natural Resources Conservation

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
Design projects involving hardware (electronic devices and circuits, microcomputers) and software. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: CPEN 211. Corequisite: CPEN 212, CPEN 213, CPSC 259.

Software Design for Engineers I

11:00 a.m. - 12:30 p.m.

Prerequisite: APSC 160.

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.

Software Design for Engineers I

10:30 a.m. - 12:00 p.m.

Written and oral communication in engineering. Technical descriptions, 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 280, CPEN 201, BMGG 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, WRDS 150.

Technical Communication

10:00 a.m. - 11:00 a.m.

Written and oral communication in engineering. Technical descriptions, 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 280, CPEN 201, BMGG 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, WRDS 150.

Technical Communication

9:30 a.m. - 10:30 a.m.

Written and oral communication in engineering. Technical descriptions, 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 280, CPEN 201, BMGG 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, WRDS 150.

Technical Communication

8:00 a.m. - 9:00 a.m.

Written and oral communication in engineering. Technical descriptions, 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 280, CPEN 201, BMGG 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, WRDS 150.

Technical Communication

7:30 a.m. - 8:30 a.m.

Written and oral communication in engineering. Technical descriptions, 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 280, CPEN 201, BMGG 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, WRDS 150.

Technical Communication

6:00 a.m. - 7:00 a.m.

Written and oral communication in engineering. Technical descriptions, 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 280, CPEN 201, BMGG 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, WRDS 150.

Technical Communication

5:00 a.m. - 6:00 a.m.

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. [3-2-2*] Prerequisite: APSC 160.

CPEN 233-11C

CPEN 233-10C

Software Design for Engineers I

4:30 p.m. - 5:30 p.m.

Theoretical and practical aspects of the design, implementation and testing of object-oriented software. Incremental design, refactoring, design patterns, Design Patterns: Elements of Reusable Object-Oriented Software (E. Gamma, R. Helm, R. Johnson, J. Vlissides); Software Composition (V. Basili, S. Ciampi); Abstractions at the hardware-software interface and their low-level implementation. Procedure invocation, dynamic dispatch, and method dispatch; library linkage, virtual memory, heap management, garbage collection, and caches; interrupts, signals, and processes; threads, locks, and cache coherence, files, devices, and network topology. [1-2-4] Prerequisite: CPEN 211 and one of CPEN 221, CPEN 223, CPSC 259.

Computing Systems II

3:30 p.m. - 4:30 p.m.

Theoretical and practical aspects of the design, implementation and testing of object-oriented software. Incremental design, refactoring, design patterns, Design Patterns: Elements of Reusable Object-Oriented Software (E. Gamma, R. Helm, R. Johnson, J. Vlissides); Software Composition (V. Basili, S. Ciampi); Abstractions at the hardware-software interface and their low-level implementation. Procedure invocation, dynamic dispatch, and method dispatch; library linkage, virtual memory, heap management, garbage collection, and caches; interrupts, signals, and processes; threads, locks, and cache coherence, files, devices, and network topology. [1-2-4] Prerequisite: CPEN 211 and one of CPEN 221, CPEN 223, CPSC 259.

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Computing Systems II

2:30 p.m. - 3:30 p.m.

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.

Software Construction I

2:30 p.m. - 3:30 p.m.

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.

Software Construction I

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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.

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Software Construction I

2:30 p.m. - 3:30 p.m.

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.

Software Construction I
CPEN_V 311-101 CPEN_V 201 12A 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. [3-2*-0] Prerequisite: 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. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: One of CPEN 211, CPEN 212. In Person Learning Arranged Arranged

CPEN_V 311-102 CPEN_V 211 102 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. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: One of CPEN 211, CPEN 212. In Person Learning Arranged Arranged

CPEN_V 311-104 CPEN_V 311 114 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. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: One of CPEN 211, CPEN 212. In Person Learning Arranged Arranged

CPEN_V 311-10A CPEN_V 311 11A 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. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-4-0] Prerequisite: One of CPEN 211, CPEN 212. In Person Learning Arranged Arranged

CPEN_V 311-11C CPEN_V 311 11C Digital Systems Design W1 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

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 combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

CPEN_V 312-202 CPEN_V 312 202 Digital Systems and Microcomputers W2 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

CPEN_V 312-211 CPEN_V 312 211 Digital Systems and Microcomputers W2 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

CPEN_V 312-212 CPEN_V 312 212 Digital Systems and Microcomputers W2 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

CPEN_V 312-21C CPEN_V 312 21C Digital Systems and Microcomputers W2 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

CPEN_V 312-22 CPEN_V 212 212 Digital Systems and Microcomputers W2 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

CPEN_V 312-22F CPEN_V 312 21F Digital Systems and Microcomputers W2 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged

CPEN_V 312-22L CPEN_V 312 21L Digital Systems and Microcomputers W2 Data representation in digital computers; boolean algebra; the design and optimization and implementation of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/analysis of 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. [3-2*-0] Prerequisite: One of ELEC 201, ELEC 204, ELEC 203, MECH 221. In Person Learning Arranged Arranged
Data representation in digital computers; boolean algebra; the design and optimization of combinational and sequential circuits; modern digital circuit technologies; memory and programmable logic devices; organization and operation of microcomputers; design/address bus organization; input-output interfacing. Credit will be granted for Credit/D/Fail grading. \[3-2*-0\] Prerequisite: One of ELEC 201, ELEC 204, ELEC 205, MECH 221. This course is not eligible for Credit/D/Fail grading.

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. \[3-2-0\] Prerequisite: All of CPEN 211, CPSC 221.

Corequisite: CPEN 322.

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. \[3-2-0\] Prerequisite: All of CPEN 211, CPSC 221.

Corequisite: CPEN 322.

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. \[3-2-0\] Prerequisite: All of CPEN 211, CPSC 221.

Corequisite: CPEN 322.

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. \[3-2-0\] Prerequisite: All of CPEN 211, CPSC 221.

Corequisite: CPEN 322.

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. \[3-2-0\] Prerequisite: All of CPEN 211, CPSC 221.

Corequisite: CPEN 322.

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. \[3-2-0\] Prerequisite: All of CPEN 211, CPSC 221.

Corequisite: CPEN 322.

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. \[3-2-0\] Prerequisite: All of CPEN 211, CPSC 221.

Corequisite: CPEN 322.
Software Design for Engineers II

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.

Software Design for Engineers II

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.

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In Person Learning
Thu 11:00 a.m. - 1:00 p.m.

Software Design for Engineers II

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.

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Software Design for Engineers II

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.

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Software Design for Engineers II

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Software Design for Engineers II

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.

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Software Design for Engineers II

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In Person Learning
Fri 1:00 p.m. - 3:00 p.m.
<table>
<thead>
<tr>
<th>CRN</th>
<th>V</th>
<th>CPEN_V</th>
<th>400</th>
<th>Q_L1A</th>
<th>Topics in Computer Engineering</th>
<th>W2</th>
<th>Lectures or projects on subjects of current interest.</th>
<th>In Person Learning</th>
<th>Arranged</th>
<th>Arranged</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPEN_V 411-101</td>
<td>CPEN_V</td>
<td>411</td>
<td>101</td>
<td>Computer Architecture</td>
<td>W1</td>
<td>Modern processors, GPUs, and memory hierarchies; quantitative principles and instruction set design; pipelining, superscalar issues, 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 311, CPEN 411. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. One of CRN 212, CPSC 211, CPEN 312.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:30 p.m. - 5:00 p.m.</td>
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</tr>
<tr>
<td>CPEN_V 400-128</td>
<td>CPEN_V</td>
<td>400</td>
<td>Q_L100</td>
<td>Topics in Computer Engineering</td>
<td>W2</td>
<td>Lectures or projects on subjects of current interest.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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</tr>
<tr>
<td>CPEN_V 410-31A</td>
<td>CPEN_V</td>
<td>411</td>
<td>T1A</td>
<td>Computer Architecture</td>
<td>W1</td>
<td>Modern processors, GPUs, and memory hierarchies; quantitative principles and instruction set design; pipelining, superscalar issues, 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 311, CPEN 411. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. One of CRN 212, CPSC 211, CPEN 312.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>CPEN_V 412-101</td>
<td>CPEN_V</td>
<td>412</td>
<td>101</td>
<td>Microcomputer Systems Design</td>
<td>W1</td>
<td>Microprocessor and system buses; microprocessor design; instruction-set architecture; operating systems; memory hierarchy; cache design; software/hardware interface; on-chip interconnect; computer arithmetic; microprocessor architecture. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>12:00 p.m. - 1:30 p.m.</td>
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<tr>
<td>CPEN_V 412-102</td>
<td>CPEN_V</td>
<td>412</td>
<td>102</td>
<td>Microcomputer Systems Design</td>
<td>W1</td>
<td>Microprocessor and system buses; microprocessor design; instruction-set architecture; operating systems; memory hierarchy; cache design; software/hardware interface; on-chip interconnect; computer arithmetic; microprocessor architecture. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Wed Mon</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>CPEN_V 412-201</td>
<td>CPEN_V</td>
<td>412</td>
<td>201</td>
<td>Microcomputer Systems Design</td>
<td>W2</td>
<td>Microprocessor and system buses; microprocessor design; instruction-set architecture; operating systems; memory hierarchy; cache design; software/hardware interface; on-chip interconnect; computer arithmetic; microprocessor architecture. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>CPEN_V 412-L1A</td>
<td>CPEN_V</td>
<td>412</td>
<td>L1A</td>
<td>Microcomputer Systems Design</td>
<td>W1</td>
<td>Microprocessor and system buses; microprocessor design; instruction-set architecture; operating systems; memory hierarchy; cache design; software/hardware interface; on-chip interconnect; computer arithmetic; microprocessor architecture. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>CPEN_V 412-L2A</td>
<td>CPEN_V</td>
<td>412</td>
<td>L2A</td>
<td>Microcomputer Systems Design</td>
<td>W2</td>
<td>Microprocessor and system buses; microprocessor design; instruction-set architecture; operating systems; memory hierarchy; cache design; software/hardware interface; on-chip interconnect; computer arithmetic; microprocessor architecture. This course is not eligible for Credit/D/Fail grading. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>CPEN_V 410-201</td>
<td>CPEN_V</td>
<td>416</td>
<td>201</td>
<td>Gate-Model Quantum Computing</td>
<td>W2</td>
<td>Introduction to quantum computing formalism and its applications. Basic elements of quantum computing: superposition, entanglement, and circuit formalism. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>CPEN_V 423-201</td>
<td>CPEN_V</td>
<td>421</td>
<td>201</td>
<td>Software Project Management</td>
<td>W2</td>
<td>Advanced project planning, cost estimation and scheduling. Project management tools. Credit will be granted for only one of CPSC 313, CPEN 411. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>CPEN_V 423-21A</td>
<td>CPEN_V</td>
<td>421</td>
<td>21A</td>
<td>Software Project Management</td>
<td>W2</td>
<td>Advanced project planning, cost estimation and scheduling. Project management tools. Credit will be granted for only one of CPSC 313, CPEN 411. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>CPEN_V 422-101</td>
<td>CPEN_V</td>
<td>422</td>
<td>101</td>
<td>Software Testing and Analysis</td>
<td>W1</td>
<td>Different levels of testing including unit, integration, system, performance and regression levels. Credit will be granted for only one of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 12:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CPEN_V 422-11A</td>
<td>CPEN_V</td>
<td>422</td>
<td>11A</td>
<td>Software Testing and Analysis</td>
<td>W1</td>
<td>Different levels of testing including unit, integration, system, performance and regression levels. Credit will be granted for only one of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>10:30 a.m. - 12:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CPEN_V 423-201</td>
<td>CPEN_V</td>
<td>431</td>
<td>201</td>
<td>Design of Distributed Software Applications</td>
<td>W2</td>
<td>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. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>CPEN_V 431-12A</td>
<td>CPEN_V</td>
<td>431</td>
<td>12A</td>
<td>Design of Distributed Software Applications</td>
<td>W2</td>
<td>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. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CPEN_V 431-12B</td>
<td>CPEN_V</td>
<td>431</td>
<td>12B</td>
<td>Design of Distributed Software Applications</td>
<td>W2</td>
<td>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. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td></td>
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<tr>
<td>CPEN_V 432-101</td>
<td>CPEN_V</td>
<td>432</td>
<td>101</td>
<td>Real-Time System Design</td>
<td>W1</td>
<td>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. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CPEN_V 441-101</td>
<td>CPEN_V</td>
<td>441</td>
<td>101</td>
<td>Human Computer Interfaces in Engineering Design</td>
<td>W1</td>
<td>Practical issues for interfaces for modern software. Tool analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications to interacting multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. One of CRN 211, CPSC 211, CPEN 311.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
</tr>
</tbody>
</table>
In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 441

L1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

L1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

T1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 441

L1A

Human Computer Interfaces in Engineering Design

W1

CPEN 441

T1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

L1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 442

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 441

T1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

L1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 441

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 442

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 441

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 441

T1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

L1A

Human Computer Interfaces in Engineering Design

W1

CPEN 442

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.

W2

CPEN 441

T2A

Human Computer Interfaces in Engineering Design

W1

In Person Learning

Thu

2:00 p.m. - 3:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Type</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPEN_V 499-W_202</td>
<td>Computer Engineering Capstone Design Project</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>W</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-W_12A</td>
<td>Computer Engineering Capstone Design Project</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>W</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-F_101</td>
<td>Research Experience in Computer Engineering</td>
<td>Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>F</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-W_201</td>
<td>Research Experience in Computer Engineering</td>
<td>Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>W</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-A_001</td>
<td>Undergraduate Thesis</td>
<td>Undergraduate Thesis</td>
<td>W1-2</td>
<td>A, A</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-A_101</td>
<td>Undergraduate Thesis</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>A, A_101</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-A_201</td>
<td>Undergraduate Thesis</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>A, A_201</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-B_001</td>
<td>Undergraduate Thesis</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>B, R_001</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-B_101</td>
<td>Undergraduate Thesis</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>B, R_101</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 499-B_201</td>
<td>Undergraduate Thesis</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>B, R_201</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 502-101</td>
<td>Architecture for Learning Systems</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>101</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 511-201</td>
<td>Advanced Computer Architecture</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>201</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 512-101</td>
<td>Parallel and Reconfigurable Computing</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>101</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 514-108</td>
<td>Quantum Information and Computation</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>108</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 518-201</td>
<td>Quantum Information and Computation</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>201</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 522-101</td>
<td>Software Verification and Testing</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>201</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 524-201</td>
<td>Trade-offs in Designing Computer Systems</td>
<td>Undergraduate Thesis</td>
<td>W2</td>
<td>201</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 541-201</td>
<td>Human Interface Technologies</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>201</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPEN_V 542-101</td>
<td>Cybersecurity</td>
<td>Undergraduate Thesis</td>
<td>W1</td>
<td>101</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

*Note: This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.*
Computational Thinking

100

In Person Learning

9:00 a.m. - 10:00 a.m.

in Person Learning

Tue Thu

Introduction to Systematic Program Design

2:00 p.m. - 3:00 p.m.

W2

CPSC_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.

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. - 6:00 p.m.

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

Tue Thu

3:00 p.m. - 4:00 p.m.

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

Mon Wed Fri

2:00 p.m. - 3:00 p.m.

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.

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.

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.

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.

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

10:00 a.m. - 11:00 a.m.

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

11:00 a.m. - 12:00 p.m.

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

12:00 p.m. - 1:00 p.m.

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

5:00 p.m. - 6:00 p.m.

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

4:00 p.m. - 5:00 p.m.

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

9:00 a.m. - 10:00 a.m.

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.

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

11:00 a.m. - 12:00 p.m.

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.

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

5:00 p.m. - 6:00 p.m.

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.

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

9:00 a.m. - 10:00 a.m.

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.

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

11:00 a.m. - 12:00 p.m.

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

11:00 a.m. - 12:00 p.m.

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

Fri

9:00 a.m. - 10:00 a.m.

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

Fri

10:00 a.m. - 11:00 a.m.

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

Fri

1:00 p.m. - 2:00 p.m.

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

Fri

12:00 p.m. - 1:00 p.m.
Introduction to Systematic Program Design

CPSC V 103-T1E
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1F
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1G
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1H
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1I
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1J
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1K
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1L
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1M
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1N
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1O
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1P
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1Q
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1R
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1S
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1T
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1U
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T1V
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2A
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2B
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2C
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2D
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2E
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2F
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2G
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.
CPSC V 103-T2H
Introduction to Systematic Program Design
W1
11 a.m. - 12:00 p.m.
In Person Learning
Fri
3:00 p.m. - 4:00 p.m.

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 exemptions from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]

Introductory programming skills. Not for credit for students who have credit for, or exemptions from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]

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Introductory programming skills. Not for credit for students who have credit for, or exemptions from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]
In Person Learning

Mon

T2K

Introduction to Systematic Program Design

11:00 a.m. - 12:00 p.m.

Introduction to Systematic Program Design

103

In Person Learning

W2

In Person Learning

Tue

VT2

103

In Person Learning

Wed

T2T

1:00 p.m. - 2:00 p.m.

In Person Learning

Fri

T2P

2:00 p.m. - 3:00 p.m.

In Person Learning

Sun

T2N

2:00 p.m. - 3:30 p.m.

In Person Learning

CPSC_V 103. [3-2-0] Prerequisite: CPSC 103.

Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.

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. [0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines.

CPSC_V 103. [3-2-0] Prerequisite: CPSC 103.

Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.

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. [0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines.

CPSC_V 103. [3-2-0] Prerequisite: CPSC 103.

Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.

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. [0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines.

CPSC_V 103. [3-2-0] Prerequisite: CPSC 103.

Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.

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. [0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines.

CPSC_V 103. [3-2-0] Prerequisite: CPSC 103.

Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.

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. [0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines.

CPSC_V 103. [3-2-0] Prerequisite: CPSC 103.

Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.

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. [0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines.

CPSC_V 103. [3-2-0] Prerequisite: CPSC 103.

Fundamental computation and program structures. Continuing systematic program design from CPSC 103. [3-2-0] Prerequisite: CPSC 103.

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. [0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Days</th>
<th>Time</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC_V 110-101</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>3:00 p.m. - 6:00 p.m.</td>
<td>Hybrid Learning</td>
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<tr>
<td>CPSC_V 110-102</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Hybrid Learning</td>
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<tr>
<td>CPSC_V 110-103</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Hybrid Learning</td>
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<tr>
<td>CPSC_V 110-104</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>Hybrid Learning</td>
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<tr>
<td>CPSC_V 110-105</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>Hybrid Learning</td>
</tr>
<tr>
<td>CPSC_V 110-106</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Hybrid Learning</td>
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<tr>
<td>CPSC_V 110-107</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>Hybrid Learning</td>
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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]

CPSC_V 110-OCH: Computation, Programs, and Programming

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
Computation, Programs, and Programming
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CPSC_V 110-L2G
CPSC_V 110-L1G
CPSC_V 110-L1H
CPSC_V 110-L1J
CPSC_V 110-L1U
CPSC_V 110-L1W
CPSC_V 110-L1X
CPSC_V 110-L1Y
CPSC_V 110-L1Z
CPSC_V 110-L2A
CPSC_V 110-L2B
CPSC_V 110-L2C
CPSC_V 110-L2D
CPSC_V 110-L2E
CPSC_V 110-L2F

12:00 p.m. - 3:00 p.m.
Wed

3:00 p.m. - 6:00 p.m.
Fri

9:00 a.m. - 12:00 p.m.
Mon

9:00 a.m. - 12:00 p.m.
Wed

12:00 p.m. - 3:00 p.m.
W1

12:00 p.m. - 3:00 p.m.
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]

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]

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]

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]

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]

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]

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]

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]

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]

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]

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]
<table>
<thead>
<tr>
<th>Code</th>
<th>Hours</th>
<th>Days</th>
<th>Type</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2G</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Thu 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2H</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2J</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Wed 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2K</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2L</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2M</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Mon 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2N</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2O</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Mon 9:00 a.m. - 12:00 p.m.</td>
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<td>CPSC_V</td>
<td>110</td>
<td>L2P</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Mon 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2Q</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2R</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Wed 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2S</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2T</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Wed 3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2U</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2V</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2W</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Wed 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2X</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2Y</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Wed 3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L2Z</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L3A</td>
<td>Computation, Programs, and Programming</td>
<td>W1  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>L3B</td>
<td>Computation, Programs, and Programming</td>
<td>W1  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T21</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Thu 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T22</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T23</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Fri 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T24</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T25</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T26</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Tue 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T27</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Wed 10:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>CPSC_V</td>
<td>110</td>
<td>T28</td>
<td>Computation, Programs, and Programming</td>
<td>W2  Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modelling, and interacting with the world. (3-3-3) In Person Learning Wed 11:00 a.m. - 2:00 p.m.</td>
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CPSC_V 110-T2P CPSC_V 110 T2P 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. [3-3-1]
In Person Learning Thu 9:00 a.m. - 12:00 p.m.

CPSC_V 110-T2Q CPSC_V 110 T2Q 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. [3-3-1]
In Person Learning Thu 10:00 a.m. - 1:00 p.m.

CPSC_V 110-T2R CPSC_V 110 T2R 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. [3-3-1]
In Person Learning Thu 3:00 p.m. - 6:00 p.m.

CPSC_V 110-T2T CPSC_V 110 T2T 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. [3-3-1]
In Person Learning Thu 9:00 a.m. - 12:00 p.m.

CPSC_V 123-101 CPSC_V 123 101 Models of Computation W1 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 Tue Thu 9:30 a.m. - 11:00 a.m.

CPSC_V 123-102 CPSC_V 123 102 Models of Computation W1 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 Tue Thu 12:30 p.m. - 2:00 p.m.

CPSC_V 123-103 CPSC_V 123 103 Models of Computation W1 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 Tue Thu 5:00 p.m. - 6:30 p.m.

CPSC_V 123-201 CPSC_V 123 201 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 Tue Thu 9:30 a.m. - 11:00 a.m.

CPSC_V 123-202 CPSC_V 123 202 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 Tue Thu 12:30 p.m. - 2:00 p.m.

CPSC_V 123-203 CPSC_V 123 203 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 Tue Thu 5:00 p.m. - 6:30 p.m.

CPSC_V 123-112 CPSC_V 123 112 Models of Computation W1 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 11:00 a.m. - 1:00 p.m.

CPSC_V 123-113 CPSC_V 123 113 Models of Computation W1 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 Wed 5:00 p.m. - 7:00 p.m.

CPSC_V 123-114 CPSC_V 123 114 Models of Computation W1 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 Fri 5:00 p.m. - 7:00 p.m.

CPSC_V 123-115 CPSC_V 123 115 Models of Computation W1 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 1:00 p.m. - 3:00 p.m.

CPSC_V 123-11A CPSC_V 123 11A Models of Computation W1 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 Wed 3:00 p.m. - 5:00 p.m.

CPSC_V 123-11B CPSC_V 123 11B Models of Computation W1 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 Tue 10:00 a.m. - 12:00 p.m.

CPSC_V 123-11C CPSC_V 123 11C Models of Computation W1 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 Tue 5:00 p.m. - 7:00 p.m.

CPSC_V 123-11D CPSC_V 123 11D Models of Computation W1 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 1:00 p.m. - 3:00 p.m.

CPSC_V 123-11E CPSC_V 123 11E Models of Computation W1 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 Wed 10:00 a.m. - 12:00 p.m.

CPSC_V 123-11F CPSC_V 123 11F Models of Computation W1 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 Fri 10:00 a.m. - 12:00 p.m.
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

Tuesday 3:00 p.m. - 5:00 p.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning

Friday 9:00 a.m. - 11:00 a.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning

Wednesday 11:00 a.m. - 1:00 p.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning

Monday 2:00 p.m. - 5:00 p.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning

Thursday 5:00 p.m. - 7:00 p.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning

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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 10. Corequisite: One of CPSC 107, CPSC 110.

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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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning

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In Person Learning

Tuesday 11:00 a.m. - 1:00 p.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning

Monday 9:00 a.m. - 11:00 a.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

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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 10. Corequisite: One of CPSC 107, CPSC 110.

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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 10. Corequisite: One of CPSC 107, CPSC 110.

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In Person Learning Wed 11:00 a.m. - 1:00 p.m.

In Person Learning Mon 12:00 p.m. - 2:00 p.m.

In Person Learning Tue 9:00 a.m. - 11:00 a.m.

In Person Learning Fri 9:00 a.m. - 11:00 a.m.

In Person Learning Thu 1:00 p.m. - 3:00 p.m.

In Person Learning Thu 1:00 p.m. - 3:00 p.m.

In Person Learning Mon 10:00 a.m. - 12:00 p.m.

In Person Learning Mon 5:00 p.m. - 7:00 p.m.

In Person Learning Wed 5:00 p.m. - 7:00 p.m.

In Person Learning Tue 9:00 a.m. - 11:00 a.m.

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In Person Learning Mon 12:00 p.m. - 2:00 p.m.

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In Person Learning Wed 12:00 p.m. - 2:00 p.m.

In Person Learning Mon 12:00 p.m. - 2:00 p.m.

In Person Learning Mon 3:00 p.m. - 5:00 p.m.

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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 Thu 2 p.m. - 3 p.m.

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 10. Corequisite: One of CPSC 107, CPSC 110.

In Person Learning Fri 11:00 a.m. - 12:00 p.m.

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 Tue 3 p.m. - 4 p.m.

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 Wed 6 p.m. - 7 p.m.

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 Thu 11:00 a.m. - 12:00 p.m.

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 11:00 a.m. - 12:00 p.m.

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 Fri 11:00 a.m. - 12:00 p.m.

In Person Learning Wed 3 p.m. - 4 p.m.

In Person Learning Mon 11:00 a.m. - 12:00 p.m.

In Person Learning Wed 3 p.m. - 4 p.m.

In Person Learning Wed 1 p.m. - 2 p.m.

In Person Learning Tue 11:00 a.m. - 12:00 p.m.

In Person Learning Tue 11:00 a.m. - 12:00 p.m.

In Person Learning Wed 1 p.m. - 2 p.m.

In Person Learning Mon 11:00 a.m. - 12:00 p.m.

In Person Learning Wed 1 p.m. - 2 p.m.

In Person Learning Thu 12:00 p.m. - 1:00 p.m.

In Person Learning Thu 12:00 p.m. - 1:00 p.m.

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In Person Learning Thu 12:00 p.m. - 1:00 p.m.

In Person Learning Thu 11:00 a.m. - 12:00 p.m.

In Person Learning Mon 3 p.m. - 4 p.m.

In Person Learning Thu 3 p.m. - 4 p.m.

In Person Learning Mon 3 p.m. - 4 p.m.

In Person Learning Thu 11:00 a.m. - 12:00 p.m.

In Person Learning Thu 3 p.m. - 4 p.m.

In Person Learning Thu 11:00 a.m. - 12:00 p.m.

In Person Learning Mon 9 a.m. - 10 a.m.

In Person Learning Wed 9 a.m. - 10 a.m.

In Person Learning Wed 11:00 a.m. - 12:00 p.m.

In Person Learning Fri 9 a.m. - 10 a.m.

In Person Learning Thu 11:00 a.m. - 12:00 p.m.

In Person Learning Tue 11:00 a.m. - 12:00 p.m.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Days</th>
<th>Rooms</th>
<th>Time</th>
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<tbody>
<tr>
<td>CPSC 210-L1</td>
<td>Software Construction</td>
<td>W2</td>
<td>Mon</td>
<td>210</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<td>Wed</td>
<td>210</td>
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<td>Fri</td>
<td>210</td>
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<td>203</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<td>301</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<td>401</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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**Description:**
Software Construction focuses on the 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.
CPSC_V_210-L2R

CPSC_V 210 L2R 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 11:00 a.m. - 1:00 p.m.

CPSC_V_210-L2S

CPSC_V 210 L2S 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 10:00 a.m. - 1:00 p.m.

CPSC_V_210-L2L

CPSC_V 210 L2L 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 3:00 p.m. - 5:00 p.m.

CPSC_V_210-L2A

CPSC_V 210 L2A 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 9:00 a.m. - 11:00 a.m.

CPSC_V_210-L2B

CPSC_V 210 L2B 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
Tue 10:00 a.m. - 1:00 p.m.

CPSC_V_210-L2C

CPSC_V 210 L2C 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
Tue 3:00 p.m. - 5:00 p.m.

CPSC_V_210-L2D

CPSC_V 210 L2D 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
Wed 10:00 a.m. - 1:00 p.m.

CPSC_V_210-L2E

CPSC_V 210 L2E 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
Wed 9:00 a.m. - 11:00 a.m.

CPSC_V_210-L2F

CPSC_V 210 L2F 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
Wed 3:00 p.m. - 5:00 p.m.

CPSC_V_210-L2G

CPSC_V 210 L2G 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
Thu 10:00 a.m. - 1:00 p.m.

CPSC_V_210-L2H

CPSC_V 210 L2H 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
Thu 9:00 a.m. - 11:00 a.m.

CPSC_V_210-L2I

CPSC_V 210 L2I 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
Thu 3:00 p.m. - 5:00 p.m.

CPSC_V_210-L2J

CPSC_V 210 L2J 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
Fri 10:00 a.m. - 1:00 p.m.

CPSC_V_210-L2K

CPSC_V 210 L2K 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
Fri 3:00 p.m. - 5:00 p.m.

CPSC_V_210-L2M

CPSC_V 210 L2M 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
Tue 9:00 a.m. - 11:00 a.m.

CPSC_V_210-L2N

CPSC_V 210 L2N 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
Tue 3:00 p.m. - 5:00 p.m.

CPSC_V_210-L2O

CPSC_V 210 L2O 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
Wed 10:00 a.m. - 1:00 p.m.

CPSC_V_210-L2P

CPSC_V 210 L2P 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
Wed 3:00 p.m. - 5:00 p.m.
Software Construction

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 11:00 a.m. - 1:00 p.m.

Software Construction

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.

Software Construction

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 1:00 p.m. - 3:00 p.m.

Software Construction

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 11:00 a.m. - 1:00 p.m.

Software Construction

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 2:00 p.m. - 3:00 p.m.

Software Construction

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 2:00 p.m. - 4:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Tue Thu 5:00 p.m. - 6:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Thu 3:30 p.m. - 5:30 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Fri 11:00 a.m. - 1:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Fri 1:00 p.m. - 3:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon 2:00 p.m. - 3:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Thu 6:30 p.m. - 8:30 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Fri 9:00 a.m. - 11:00 a.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon 10:00 a.m. - 12:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon 3:00 p.m. - 5:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon 12:00 p.m. - 2:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Mon 9:00 a.m. - 11:00 a.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Fri 3:00 p.m. - 5:00 p.m.

Software Construction

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware: critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. (3-3-0) Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning Thu 9:00 a.m. - 11:00 a.m.
Introduction to Computer Systems

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Mon
9:00 a.m. - 10:00 a.m.

CPSC_V 213-L2A

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Mon
2:00 p.m. - 3:00 p.m.

CPSC_V 213-L2C

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Tue
10:00 a.m. - 12:00 p.m.

CPSC_V 213-L2D

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Mon
3:00 p.m. - 4:00 p.m.

CPSC_V 213-L2F

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Thu
2:00 p.m. - 3:00 p.m.

CPSC_V 213-L2H

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Thu
5:00 p.m. - 7:00 p.m.

CPSC_V 213-L2I

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Fri
6:00 p.m. - 8:00 p.m.

CPSC_V 213-L2J

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Mon
1:00 p.m. - 2:00 p.m.

CPSC_V 213-L2K

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Mon
10:30 a.m. - 11:00 a.m.

CPSC_V 213-L2M

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Wed
9:00 a.m. - 10:00 a.m.

CPSC_V 213-L2N

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Tue
2:00 p.m. - 3:00 p.m.

CPSC_V 213-L2P

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Tue
2:00 p.m. - 4:00 p.m.

CPSC_V 213-L2Q

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Tue
5:00 p.m. - 7:00 p.m.

CPSC_V 213-L2S

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Wed
12:00 a.m. - 1:00 p.m.

CPSC_V 213-L2T

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Wed
10:00 a.m. - 11:00 a.m.

CPSC_V 213-L2V

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Wed
6:00 p.m. - 8:00 p.m.

CPSC_V 213-L2W

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Wed
6:00 p.m. - 8:00 p.m.

CPSC_V 213-L2X

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Mon
1:00 p.m. - 2:00 p.m.

CPSC_V 213-L2Y

Software architecture, operating systems, and I/O architectures. Relationships between application software, operating systems, and computing hardware; critical sections, deadlock avoidance, and performance; principles and operation of disks and networks. [3-3-0] Prerequisite: All of CPSC 121, CPSC 210.

In Person Learning  Mon
11:00 a.m. - 12:00 p.m.
Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon Wed Fri
9:00 a.m. - 11:00 a.m.
CPSC 221-101 CPSC_V
221 Basic Algorithms and Data Structures W1
101

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon Wed Fri
2:00 p.m. - 3:00 p.m.
CPSC 221-102 CPSC_V
221 Basic Algorithms and Data Structures W1
102

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon Wed Fri
3:00 p.m. - 4:00 p.m.
CPSC 221-101 CPSC_V
221 Basic Algorithms and Data Structures W2

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon Wed Fri
1:00 p.m. - 2:00 p.m.
CPSC 221-201 CPSC_V
221 Basic Algorithms and Data Structures W2

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon Wed Fri
4:00 p.m. - 5:00 p.m.
CPSC 221-202 CPSC_V
221 Basic Algorithms and Data Structures W2

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon Wed Fri
6:00 p.m. - 7:00 p.m.
CPSC 221-201 CPSC_V
221 Basic Algorithms and Data Structures W2

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
5:00 p.m. - 7:00 p.m.
CPSC 221-211 CPSC_V
221 Basic Algorithms and Data Structures W1
111

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
5:00 p.m. - 7:00 p.m.
CPSC 221-211 CPSC_V
221 Basic Algorithms and Data Structures W1
111

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
9:00 a.m. - 11:00 a.m.
CPSC 221-222 CPSC_V
221 Basic Algorithms and Data Structures W1
222

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
9:00 a.m. - 11:00 a.m.
CPSC 221-222 CPSC_V
221 Basic Algorithms and Data Structures W1
222

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
11:00 a.m. - 1:00 p.m.
CPSC 221-221 CPSC_V
221 Basic Algorithms and Data Structures W1
221

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
11:00 a.m. - 1:00 p.m.
CPSC 221-221 CPSC_V
221 Basic Algorithms and Data Structures W1
221

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
11:00 a.m. - 1:00 p.m.
CPSC 221-221 CPSC_V
221 Basic Algorithms and Data Structures W1
221

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
2:00 p.m. - 4:00 p.m.
CPSC 221-221 CPSC_V
221 Basic Algorithms and Data Structures W1
221

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
2:00 p.m. - 4:00 p.m.
CPSC 221-221 CPSC_V
221 Basic Algorithms and Data Structures W1
221

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
3:00 p.m. - 5:00 p.m.
CPSC 221-221 CPSC_V
221 Basic Algorithms and Data Structures W1
221

Design and analysis of basic algorithms and data structures; algorithm analysis methods; searching and sorting algorithms, basic data structures, graphs and concurrency. (3-2-0) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning  Mon
3:00 p.m. - 5:00 p.m.
CPSC 221-221 CPSC_V
221 Basic Algorithms and Data Structures W1
221
Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

West

10:00 a.m. - 12:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Tue

10:00 a.m. - 1:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Thu

9:00 a.m. - 11:00 a.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Wed

2:00 p.m. - 4:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Mon

2:00 p.m. - 4:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Tue

9:00 a.m. - 11:00 a.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Tue

3:00 p.m. - 5:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Wed

10:00 a.m. - 1:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Thu

9:00 a.m. - 11:00 a.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Mon

5:00 p.m. - 7:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Tue

5:00 p.m. - 7:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Mon

5:00 p.m. - 7:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Thu

9:00 a.m. - 11:00 a.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Thu

5:00 p.m. - 7:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Thu

3:00 p.m. - 5:00 p.m.

Design and analysis of basic algorithms and data structures; algorithm analysis methods, searching and sorting algorithms, basic data structures, graphs and concurrency. \([3-2-0]\) Prerequisite: One of CPSC 210, CPEN 221 and either (a) one of CPSC 121, MATH 220 or (b) a score of 68% or higher in MATH 226.

In Person Learning

Thu

5:00 p.m. - 7:00 p.m.

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 Wed Fri

8:00 a.m. - 9:30 a.m.

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

9:00 a.m. - 11:00 a.m.

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.

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

10:00 a.m. - 1:00 p.m.

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

2:00 p.m. - 3:00 p.m.

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.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
<th>Requirement</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 298-611</td>
<td>Co-operative Work Placement I</td>
<td>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.</td>
<td></td>
<td>Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>CPSC 298-612</td>
<td>Co-operative Work Placement I</td>
<td>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.</td>
<td></td>
<td>Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>CPSC 298-C02</td>
<td>Co-operative Work Placement II</td>
<td>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: CPSC 296.</td>
<td></td>
<td>Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>CPSC 298-611</td>
<td>Co-operative Work Placement II</td>
<td>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: CPSC 296.</td>
<td></td>
<td>Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>CPSC 298-612</td>
<td>Co-operative Work Placement II</td>
<td>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: CPSC 296.</td>
<td></td>
<td>Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>CPSC 298-P01</td>
<td>Co-operative Work Placement II</td>
<td>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: CPSC 296.</td>
<td></td>
<td>Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>CPSC 298-C02</td>
<td>Co-operative Work Placement II</td>
<td>W2 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. Prerequisite: One of CPSC 103, CPSC 110, CPEN 221, CPSC 291, CPSC 292, MATH 220 and one of MATH 101, MATH 102, MATH 121, SCE 005 and one of MATH 105, MATH 201, MATH 221.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>W1 Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 302-101</td>
<td>Numerical Computation for Algebraic Problems</td>
<td>W1 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. Prerequisite: One of CPSC 220, CPSC 221, CPSC 230, CPSC 231, MATH 152, MATH 221, MATH 201, MATH 101, MATH 102, MATH 121, SCE 005 and one of MATH 105, MATH 201, MATH 221.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>W1 Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 302-201</td>
<td>Numerical Approximation and Discretization</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>W1 Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 304-101</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>CPSC 304-103</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Wed Fri</td>
</tr>
<tr>
<td>CPSC 304-201</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Mon Wed</td>
</tr>
<tr>
<td>CPSC 304-202</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Mon Wed</td>
</tr>
<tr>
<td>CPSC 304-203</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Mon Wed</td>
</tr>
<tr>
<td>CPSC 304-T1A</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>CPSC 304-T1B</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>CPSC 304-T1C</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>CPSC 304-T1D</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>CPSC 304-T1E</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>CPSC 304-T1F</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>CPSC 304-T1G</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>CPSC 304-T1H</td>
<td>Introduction to Relational Databases</td>
<td>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. Prerequisite: CPSC 220.</td>
<td>3-0-0</td>
<td>Person Learning</td>
<td>Fri</td>
</tr>
</tbody>
</table>
Introduction to Relational Databases

4:00 p.m. - 5:00 p.m.
In Person Learning
304

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  6:00 p.m. - 7:00 p.m.

Introduction to Relational Databases

T2A

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  Thu  2:00 p.m. - 3:30 p.m.

Introduction to Relational Databases

T2B

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  3:00 p.m. - 4:30 p.m.

Introduction to Relational Databases

T2C

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  2:00 p.m. - 3:30 p.m.

Introduction to Relational Databases

T2D

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  3:00 p.m. - 4:30 p.m.

Introduction to Relational Databases

T2E

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  3:00 p.m. - 4:30 p.m.

Introduction to Relational Databases

T2F

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  11:00 a.m. - 12:00 p.m.

Introduction to Relational Databases

T2G

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  Fri  3:00 p.m. - 4:30 p.m.

Introduction to Relational Databases

T2H

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  Thu  2:00 p.m. - 3:30 p.m.

Introduction to Relational Databases

T2I

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  2:00 p.m. - 3:30 p.m.

Introduction to Relational Databases

T2J

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  1:00 p.m. - 2:30 p.m.

Introduction to Relational Databases

T2K

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  Thu  10:00 a.m. - 11:00 a.m.

Introduction to Relational Databases

T2L

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  Thu  11:00 a.m. - 12:00 p.m.

Introduction to Relational Databases

T2M

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  Thu  10:00 a.m. - 11:00 a.m.

Introduction to Relational Databases

T2N

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  Thu  11:00 a.m. - 12:00 p.m.

Introduction to Relational Databases

T2O

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  Thu  1:00 p.m. - 2:30 p.m.

Introduction to Relational Databases

T2P

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  Fri  10:00 a.m. - 11:00 a.m.

Introduction to Relational Databases

T2Q

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  Fri  11:00 a.m. - 12:00 p.m.

Introduction to Relational Databases

T2R

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  8:00 a.m. - 9:30 a.m.

Introduction to Relational Databases

T2S

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  2:00 p.m. - 3:30 p.m.

Introduction to Relational Databases

T2T

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  Thu  12:30 p.m. - 2:30 p.m.

Introduction to Relational Databases

T2U

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  Thu  8:00 a.m. - 9:30 a.m.

Introduction to Relational Databases

T2V

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  Thu  2:30 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>CRN</th>
<th>Location</th>
<th>Days</th>
<th>Time</th>
<th>Title of Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC_V 310-L2A</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2B</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2C</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2D</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2E</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2F</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2G</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2H</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2I</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2J</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
<tr>
<td>CPSC_V 310-L2K</td>
<td>310</td>
<td>Classroom</td>
<td>W</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>Introduction to Software Engineering</td>
</tr>
</tbody>
</table>

**Course Description:**
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.
<table>
<thead>
<tr>
<th>Course</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 310</td>
<td>1DH</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Introduction to Software Engineering</td>
<td>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. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.</td>
</tr>
<tr>
<td>CPSC 310</td>
<td>1DI</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Introduction to Software Engineering</td>
<td>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. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.</td>
</tr>
<tr>
<td>CPSC 310</td>
<td>1DK</td>
<td>W2</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Introduction to Software Engineering</td>
<td>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. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.</td>
</tr>
<tr>
<td>CPSC 310</td>
<td>1DM</td>
<td>W2</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>Introduction to Software Engineering</td>
<td>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. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221.</td>
</tr>
<tr>
<td>CPSC 311</td>
<td>101</td>
<td>T1C</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Definition of Programming Languages</td>
<td>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.</td>
</tr>
<tr>
<td>CPSC 311</td>
<td>101</td>
<td>T1E</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Definition of Programming Languages</td>
<td>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.</td>
</tr>
<tr>
<td>CPSC 312</td>
<td>201</td>
<td>T1C</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Computer Hardware and Operating Systems</td>
<td>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.</td>
</tr>
<tr>
<td>CPSC 312</td>
<td>201</td>
<td>T1D</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Computer Hardware and Operating Systems</td>
<td>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.</td>
</tr>
<tr>
<td>CPSC 313</td>
<td>101</td>
<td>T1C</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Computer Hardware and Operating Systems</td>
<td>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.</td>
</tr>
<tr>
<td>CPSC 313</td>
<td>101</td>
<td>T1D</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Computer Hardware and Operating Systems</td>
<td>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.</td>
</tr>
</tbody>
</table>
Human vision and colour; geometric transformations; algorithms for 2-D and 3-D graphics; 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.

Computer Hardware and Operating Systems

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

Thu 9:00 a.m. - 10:30 a.m.

In Person Learning

Thu 12:30 p.m. - 1:30 p.m.

In Person Learning

Tue 9:00 a.m. - 10:00 a.m.

In Person Learning

Thu 5:00 p.m. - 6:00 p.m.

In Person Learning

Wed 10:00 a.m. - 11:00 a.m.

In Person Learning

Wed 5:00 p.m. - 6:00 p.m.

In Person Learning

Wed 10:00 a.m. - 11:00 a.m.

In Person Learning

Thu 5:00 p.m. - 6:00 p.m.

In Person Learning

Arranged

Arranged

Thu 10:00 a.m. - 11:00 a.m.

Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Wed 9:00 a.m. - 10:00 a.m.

Wed 2:00 p.m. - 3:00 p.m.

Tue 1:00 p.m. - 2:00 p.m.

Thu 1:00 p.m. - 2:00 p.m.
| CPSC_V 314-L2G | CPSC_V | 314 | L2G | Computer Graphics |
| CPSC_V 314-L2C | CPSC_V | 314 | L2C | Computer Graphics |
| CPSC_V 314-L2D | CPSC_V | 314 | L2D | Computer Graphics |
| CPSC_V 314-L2I | CPSC_V | 314 | L2I | Computer Graphics |
| CPSC_V 314-L2G | CPSC_V | 314 | L2G | Computer Graphics |

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 210, MATH 217, MATH 226, MATH 254 and one of MATH 312, MATH 221, MATH 233.

In Person Learning. Tue 2:00 p.m. - 3:00 p.m.

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 210, MATH 217, MATH 226, MATH 254 and one of MATH 312, MATH 221, MATH 233.

In Person Learning. Wed 3:00 p.m. - 4:00 p.m.

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 210, MATH 217, MATH 226, MATH 254 and one of MATH 312, MATH 221, MATH 233.

In Person Learning. Wed 10:00 a.m. - 12:00 p.m.

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 210, MATH 217, MATH 226, MATH 254 and one of MATH 312, MATH 221, MATH 233.

In Person Learning. Wed 10:00 a.m. - 12:00 p.m.

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 210, MATH 217, MATH 226, MATH 254 and one of MATH 312, MATH 221, MATH 233.

In Person Learning. Fri 9:00 a.m. - 10:00 a.m.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.
Introduction to Computer Networking

CPSC_V 317-T2E
CPSC_V 317-T2F
CPSC_V 317-T2G
CPSC_V 317-T2H

In Person Learning

W2
W2
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W2

5:00 p.m. - 6:00 p.m.
10:00 a.m. - 11:00 a.m.
1:00 p.m. - 2:00 p.m.
6:00 p.m. - 7:00 p.m.

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, BIOS 100, MATH or STAT at 200 level or above.

Common application-level protocols and principles associated with developing distributed applications. [3-0-2] Prerequisite: CPSC 310.

Computer networking, basic communication protocols, network infrastructure and routing Common application-level protocols and principles associated with developing distributed applications. [3-0-2] Prerequisite: All of CPSC 221, CPSC 222.

Computer networking, basic communication protocols, network infrastructure and routing Common application-level protocols and principles associated with developing distributed applications. [3-0-2] Prerequisite: All of CPSC 221, CPSC 222.

Computer networking, basic communication protocols, network infrastructure and routing Common application-level protocols and principles associated with developing distributed applications. [3-0-2] Prerequisite: All of CPSC 221, CPSC 222.

The Design, implementation, and test of a large software system, using a team approach. [3-0-2] Prerequisite: CPSC 310.

Software Engineering Project

CPSC_V 203-201

In Person Learning

W2

5:30 p.m. - 7:30 p.m.

Intermediate Algorithm Design and Analysis

CPSC_V 320-101
CPSC_V 320-102
CPSC_V 320-201
CPSC_V 320-202
CPSC_V 320-203
CPSC_V 320-T1A
CPSC_V 320-T1B
CPSC_V 320-T1C
CPSC_V 320-T1D
CPSC_V 320-T1E
CPSC_V 320-T1F
CPSC_V 320-T1G
CPSC_V 320-T1H
CPSC_V 320-T2A
CPSC_V 320-T2B
CPSC_V 320-T2C
CPSC_V 320-T2D

In Person Learning

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3:00 p.m. - 4:00 p.m.
9:00 a.m. - 10:00 a.m.
10:00 a.m. - 11:00 a.m.
4:00 p.m. - 5:00 p.m.
1:00 p.m. - 2:00 p.m.
5:00 p.m. - 6:00 p.m.
12:00 p.m. - 1:00 p.m.
3:30 p.m. - 4:30 p.m.
10:00 a.m. - 11:00 a.m.
10:00 a.m. - 11:00 a.m.
5:00 p.m. - 6:00 p.m.
12:00 p.m. - 1:00 p.m.
Intermediate Algorithm Design and Analysis

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 100, MATH or STAT at 200 level or above.

In Person Learning

Tue Thu
11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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 100, MATH or STAT at 200 level or above.

In Person Learning

Thu
3:30 p.m. - 5:00 p.m.

Introduction to Artificial Intelligence

Problem-solving and planning, decision making; and graph searching. Natural language understanding. Computational visons. Applications of artificial intelligence. [3-0-1] Prerequisite: CPSC 221.

In Person Learning

Thu Thu
2:00 p.m. - 3:30 p.m.

Intermediate Algorithm Design and Analysis

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 100, MATH or STAT at 200 level or above.

In Person Learning

Tue Thu
11:00 a.m. - 12:00 p.m.

Applied Machine Learning

Problem-solving and planning, decision making; and graph searching. Natural language understanding. Computational visons. Applications of artificial intelligence. [3-0-1] Prerequisite: CPSC 221.

In Person Learning

Tue Thu
11:00 a.m. - 12:00 p.m.

Applied Machine Learning

204
104
203
103
202
102
201
101
Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.

Applied Machine Learning

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

W2

11:00 a.m. - 12:00 p.m.
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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W1  10:00 a.m. - 11:00 a.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W1  11:00 a.m. - 12:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  9:00 a.m. - 10:00 a.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  10:00 a.m. - 11:00 a.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  11:00 a.m. - 12:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  12:00 p.m. - 1:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  1:00 p.m. - 2:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  2:00 p.m. - 3:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  3:00 p.m. - 4:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  4:00 p.m. - 5:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  5:00 p.m. - 6:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  6:00 p.m. - 7:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  7:00 p.m. - 8:00 p.m.

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 and either of MATH 210 or MATH 107; CPSC 200, CPEN 221 and APSC 104.

In Person Learning  
W2  8:00 p.m. - 9:00 p.m.
CPSC 340-T2H  CPSC 340-T2H  Machine Learning and Data Mining  W2  
Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Tue Thu  
1:00 p.m. - 2:00 p.m.

CPSC 340-T2Z  CPSC 340-T2Z  Machine Learning and Data Mining  W2  
Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Tue Thu  
1:00 p.m. - 2:00 p.m.

CPSC 344-101  CPSC 344-101  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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Mon Wed  
0.00 a.m. - 0.00 a.m.

CPSC 344-103  CPSC 344-103  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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Mon Wed  
0.00 a.m. - 0.00 a.m.

CPSC 344-301  CPSC 344-301  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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Mon Wed  
0.00 a.m. - 0.00 a.m.

CPSC 344-T1A  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Thu  
10:00 a.m. - 12:00 p.m.

CPSC 344-T1B  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Thu  
12:00 p.m. - 2:00 p.m.

CPSC 344-T1C  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Thu  
10:00 a.m. - 12:00 p.m.

CPSC 344-T1D  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Fri  
11:00 a.m. - 1:00 p.m.

CPSC 344-T1F  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Fri  
3:00 p.m. - 5:00 p.m.

CPSC 344-T1G  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Fri  
5:00 p.m. - 7:00 p.m.

CPSC 344-T2A  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Thu  
10:00 a.m. - 12:00 p.m.

CPSC 344-T2B  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Fri  
12:00 p.m. - 2:00 p.m.

CPSC 344-T2C  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Thu  
0.00 a.m. - 0.00 a.m.

CPSC 344-T2D  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Thu  
0.00 a.m. - 0.00 a.m.

CPSC 344-T2E  CPSC 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. (3-2-2) Prerequisite: One of CPSC 221, CRIN 211. 
In Person Learning Thu  
2:00 p.m. - 4:00 p.m.

CPSC 349-001  CPSC 349-001  Honours Research Seminar  W1  
5:00 p.m. - 6:30 p.m.

CPSC 358-101  CPSC 358-101  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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Arranged  
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CPSC 368-201  CPSC 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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Thu Thu  
2:00 p.m. - 3:30 p.m.

CPSC 368-T1A  CPSC 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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Arranged  
Arranged

CPSC 368-T1B  CPSC 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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Arranged  
Arranged

CPSC 368-T1C  CPSC 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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Arranged  
Arranged

CPSC 369-001  CPSC 369-001  Honours Research Seminar  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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Arranged  
Arranged

CPSC 374-001  CPSC 374-001  Honours Research Seminar  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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Arranged  
Arranged

CPSC 378-001  CPSC 378-001  Honours Research Seminar  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. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221. 
In Person Learning Arranged  
Arranged

Overview of relational and non-relational database systems, role and usage of a database when querying data, data modelling, query languages, and query optimization. (3-0-0) Prerequisite: One of CPSC 302, CPSC 230, CRIN 221.
CPSC_V 399-71D 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 399-71E 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 399-72A 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 399-72B 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 399-72C 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 399-72D 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 399-72E 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 399-72F CPSC_V 368 T2F 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. (3-0-0) Prerequisite: One of CPSC 365, CPSC 392, CPEN 221.

CPSC_V 398-601 CPSC_V 308 G01 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. Restrictions: 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 308 G11 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. Restrictions: 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 308 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. Restrictions: 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 308 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. Restrictions: 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 398-610 CPSC_V 308 G10 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 fall term of the fourth year. Technical report required. Restrictions: 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 308 G11 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. Restrictions: 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 308 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. Restrictions: 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 308 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. Restrictions: 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 T01 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 Lanczos and the QR method. Relevance of these techniques for sparse matrices. (3-0-0) Prerequisite: One of CPSC 302, CPSC 392, MATH 307.

CPSC_V 404-101 CPSC_V 404 T01 Advanced Relational Databases W1 Physical database design, indexing, external merge-sort, relational query processing and optimization, transaction processing, concurrency control, crash recovery, special topics. (3-0-0) Prerequisite: CPSC 365 and one of CPSC 392, CPEN 221.

CPSC_V 404-201 CPSC_V 404 201 Advanced Relational Databases W2 Physical database design, indexing, external merge-sort, relational query processing and optimization, transaction processing, concurrency control, crash recovery, special topics. (3-0-0) Prerequisite: CPSC 365 and one of CPSC 392, CPEN 221.

CPSC_V 404-202 CPSC_V 404 202 Advanced Relational Databases W2 Physical database design, indexing, external merge-sort, relational query processing and optimization, transaction processing, concurrency control, crash recovery, special topics. (3-0-0) Prerequisite: CPSC 365 and one of CPSC 392, CPEN 221.

CPSC_V 406-201 CPSC_V 406 201 Computational Optimization W2 Formulation and analysis of algorithms for combinatorial and discrete optimization problems: linear, nonlinear; network, dynamic, and integer optimization; large-scale problems; software packages, and their implementation; duality theory and convexity. (3-0-0) Prerequisite: One of CPSC 302, CPSC 392, MATH 307.

CPSC_V 410-201 CPSC_V 410 T01 Advanced Software Engineering W2 Specification, design, construction and validation of multi-version software systems. (3-0-0) Prerequisite: Either (a) CPSC 320 or (b) all of CPSC 321, CPEN 331.
In Person Learning

CPSC 418-201  CPSC_V 101

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 313, CPSC 321, CPSC 311.

In Person Learning  Tue Thu

2:00 p.m. - 3:30 p.m.

CPSC 416-101  CPSC_V 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, CPE 311 and one of CPSC 317, ELEC 311.

In Person Learning  Tue Thu

5:00 p.m. - 6:30 p.m.

CPSC 416-201  CPSC_V 101

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, CPE 311 and one of CPSC 317, ELEC 311.

In Person Learning  Tue Thu

8:00 a.m. - 9:30 a.m.

CPSC 416-202  CPSC_V 101

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, CPE 311 and one of CPSC 317, ELEC 311.

In Person Learning  Tue Thu

11:30 a.m. - 1:00 p.m.

CPSC 417-101  CPSC_V 101

Computer Networking

W2

Network protocols and architecture including internetworking, Internet, layered communication protocols, routing, flow and congestion control, network performance, wired and wireless data communication. [3-0-0] Prerequisite: All of CPSC 313, CPSC 317 and one of CPSC 202, STAT 201, STAT 241, STAT 311.

In Person Learning  Tue Thu

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CPSC 417-201  CPSC_V 101

Computer Networking

W2

Network protocols and architecture including internetworking, Internet, layered communication protocols, routing, flow and congestion control, network performance, wired and wireless data communication. [3-0-0] Prerequisite: All of CPSC 313, CPSC 317 and one of CPSC 202, STAT 201, STAT 241, STAT 311.

In Person Learning  Tue Thu

2:00 p.m. - 3:30 p.m.

CPSC 418-101  CPSC_V 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 201, CPSC 202, CPSC 301.

In Person Learning  Mon Wed Fri

12:00 p.m. - 2:00 p.m.

CPSC 418-201  CPSC_V 101

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 201, CPSC 202, CPSC 301.

In Person Learning  Mon Wed Fri

3:00 p.m. - 5:00 p.m.

CPSC 420-201  CPSC_V 101

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 theory, approximation algorithms. [3-0-0] Prerequisite: CPSC 320.

In Person Learning  Mon Wed Fri

1:00 p.m. - 2:30 p.m.

CPSC 421-101  CPSC_V 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 120 or MAT 223 or MAT 226.

In Person Learning  Mon Wed Fri

11:00 a.m. - 12:00 p.m.

CPSC 422-101  CPSC_V 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. - 1:30 p.m.

CPSC 422-201  CPSC_V 101

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. - 3:30 p.m.

CPSC 424-201  CPSC_V 101

Geometric Modelling

W1

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, processing and rendering of 3D shapes. [3-0-0] Prerequisite: One of MATH 122, MATH 221, MATH 223 and one of STAT 200, MATH 217, MATH 218, MATH 221.

In Person Learning  Mon Wed Fri

12:00 p.m. - 1:30 p.m.

CPSC 424-202  CPSC_V 101

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, processing and rendering of 3D shapes. [3-0-0] Prerequisite: One of MATH 122, MATH 221, MATH 223 and one of STAT 200, MATH 217, MATH 218, MATH 221.

In Person Learning  Mon Wed Fri

1:00 p.m. - 2:30 p.m.

CPSC 424-203  CPSC_V 101

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, processing and rendering of 3D shapes. [3-0-0] Prerequisite: One of MATH 122, MATH 221, MATH 223 and one of STAT 200, MATH 217, MATH 218, MATH 221.

In Person Learning  Mon Wed Fri

2:00 p.m. - 3:30 p.m.

CPSC 425-101  CPSC_V 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 321, MAT 226, CPSC 221.

In Person Learning  Tue Thu

4:00 p.m. - 5:30 p.m.

CPSC 425-102  CPSC_V 101

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 321, MAT 226, CPSC 221.

In Person Learning  Mon Wed Fri

3:30 p.m. - 5:00 p.m.

CPSC 425-201  CPSC_V 101

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 321, MAT 226, CPSC 221.

In Person Learning  Tue Thu

12:00 p.m. - 2:30 p.m.

CPSC 425-202  CPSC_V 101

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 321, MAT 226, CPSC 221.

In Person Learning  Mon Wed Fri

5:00 p.m. - 6:30 p.m.

CPSC 426-201  CPSC_V 101

Computer Animation

W2

Motion in computer graphics for characters and their environments. Rendering, inverse kinematics, particle systems, rigid body dynamics, contact and collision, controller-based active motion, motion capture. [3-0-0] Prerequisite: CPSC 318.

In Person Learning  Mon Wed

5:00 p.m. - 6:30 p.m.
CPSC_V 427-101 Video Game Programming
W1 427 101 Video Game Programming

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 224, MATH 253 and one of MATH 152, MATH 221, MATH 223.

CPSC_V 427-201 Video Game Programming
W2 427 201 Video Game Programming

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 224, MATH 253 and one of MATH 152, MATH 221, MATH 223.

CPSC_V 427-T1A Video Game Programming
W1 427 T1A Video Game Programming

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 224, MATH 253 and one of MATH 152, MATH 221, MATH 223.

CPSC_V 436 W1 Computers and Society
W1 436 101 Computers and Society

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.

CPSC_V 436 W2 Computers and Society
W2 436 102 Computers and Society

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.

CPSC_V 436-A 101 A topics in Computer Science
W1 436 A A_101 Topics in Computer Science

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.

CPSC_V 436-C 101 C topics in Computer Science
W1 436 C C_101 Topics in Computer Science

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.

CPSC_V 436-N 101 N topics in Computer Science
W1 436 N N_101 Topics in Computer Science

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.

CPSC_V 436-Q 101 Q topics in Computer Science
W1 436 Q Q_101 Topics in Computer Science

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.

CPSC_V 436-R 101 R topics in Computer Science
W1 436 R R_101 Topics in Computer Science

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.

CPSC_V 440-101 Advanced Machine Learning
W2 440 201 Advanced Machine Learning

Advanced machine learning techniques focusing on probabilistic models. Deep learning and differentiable programming, exponential families and Bayesain inference, probabilistic graphical models and other generative models, Monte Carlo and variational inference methods. [3-0-1] Prerequisite: All of CPSC 220, CPSC 240.

CPSC_V 440-T1A Advanced Machine Learning
W2 440 T1A Advanced Machine Learning

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 220, CPSC 240.

CPSC_V 440-T2B Advanced Machine Learning
W2 440 T2B Advanced Machine Learning

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 220, CPSC 240.

CPSC_V 440-T2C Advanced Machine Learning
W2 440 T2C Advanced Machine Learning

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 220, CPSC 240.

Topics in Computer Science

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: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.

Computers and Society

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: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the department.

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.
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<td>CPSC_V 533-V_101</td>
<td>S15  P  P_101</td>
<td>Topics in Simulation and Optimization</td>
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<td>CPSC_V 534-L_201</td>
<td>S16  E  _101</td>
<td>Topics in Algorithms and Complexity</td>
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<td>CPSC_V 534-L_201</td>
<td>S16  F  _101</td>
<td>Topics in Algorithms and Complexity</td>
<td>W1</td>
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<td>CPSC_V 535-P_101</td>
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<td>Topics in Algorithms and Complexity</td>
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<td>CPSC_V 536-E_101</td>
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<td>Topics in Algorithms and Complexity</td>
<td>W2</td>
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<td>CPSC_V 536-G_101</td>
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<td>Topics in Algorithms and Complexity</td>
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<td>CPSC_V 536-G_101</td>
<td>S18  G  G_101</td>
<td>Topics in Computer Systems</td>
<td>W1</td>
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<td>CPSC_V 536-H_101</td>
<td>S18  H  _101</td>
<td>Topics in Computer Systems</td>
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<td>S18  M  M_101</td>
<td>Topics in Computer Systems</td>
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<td>Topics in Computer Systems</td>
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<td>CPSC_V 536-P_101</td>
<td>S18  S  S_201</td>
<td>Topics in Computer Systems</td>
<td>W2</td>
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<tr>
<td>CPSC_V 536-P_101</td>
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<td>Topics in Programming Languages</td>
<td>W2</td>
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<td>Topics in Programming Languages</td>
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<td>Topics in Programming Languages</td>
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<td>Topics in Programming Languages</td>
<td>W2</td>
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<td>S18  W  W_101</td>
<td>Topics in Programming Languages</td>
<td>W2</td>
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<tr>
<td>CPSC_V 538-L2A</td>
<td>S43  12A</td>
<td>Physical User Interface Design and Evaluation</td>
<td>W2</td>
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<tr>
<td>CPSC_V 539-B_101</td>
<td>S32  Y  Y_101</td>
<td>Topics in Artificial Intelligence</td>
<td>W1</td>
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<tr>
<td>CPSC_V 539-G_101</td>
<td>S32  G  G_101</td>
<td>Topics in Computer Systems</td>
<td>W1</td>
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<tr>
<td>CPSC_V 539-L_101</td>
<td>S32  H  H_101</td>
<td>Topics in Computer Systems</td>
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<td>CPSC_V 539-L_101</td>
<td>S32  M  M_101</td>
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<td>CPSC_V 539-L_101</td>
<td>S32  W  W_101</td>
<td>Topics in Programming Languages</td>
<td>W2</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Schedule</td>
<td>Notes</td>
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<tr>
<td>CPSC_V 544-L1B</td>
<td>Human Computer Interaction</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 544-L2A</td>
<td>Human Computer Interaction</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>CPSC_V 544-L2B</td>
<td>Algorithms for Bioinformatics</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 548-001</td>
<td>Directed Study</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 548-101</td>
<td>Directed Study</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 549-A_001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 549-A_101</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged</td>
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<td>CPSC_V 549-A_201</td>
<td>Master's Thesis</td>
<td>W2</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 550-201</td>
<td>Machine Learning II</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>CPSC_V 554-A_101</td>
<td>Topics in Human-Computer Interaction</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 554-C_201</td>
<td>Topics in Human-Computer Interaction</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>CPSC_V 554-K_101</td>
<td>Topics in Human-Computer Interaction</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>CPSC_V 554-Y_201</td>
<td>Topics in Human-Computer Interaction</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>CPSC_V 589-001</td>
<td>M.Sc. Major Essay</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>CPSC_V 589-101</td>
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<td>W1</td>
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<td>CPSC_V 649-001</td>
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<td>CRWR_V 200-001</td>
<td>CRWR_V 200</td>
<td>001</td>
<td>Introduction to Creative Writing</td>
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<td>CRWR_V 200-002</td>
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<td>Introduction to Creative Writing</td>
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<td>CRWR_V 200-003</td>
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<td>003</td>
<td>Introduction to Creative Writing</td>
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<td>CRWR_V 200-004</td>
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<td>CRWR_V 200-005</td>
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<td>CRWR_V 200-006</td>
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<td>CRWR_V 201-001</td>
<td>CRWR_V 201</td>
<td>001</td>
<td>Introduction to Writing Poetry</td>
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<tr>
<td>CRWR_V 201-002</td>
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<td>Introduction to Writing Poetry</td>
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<tr>
<td>CRWR_V 201-003</td>
<td>CRWR_V 201</td>
<td>003</td>
<td>Introduction to Writing for Children and Young Adults</td>
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<td>CRWR_V 201-004</td>
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<td>Introduction to Writing for Children and Young Adults</td>
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<td>CRWR_V 201-005</td>
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<td>Introduction to Writing Creative Nonfiction</td>
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<td>CRWR_V 201-006</td>
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<td>CRWR_V 206-001</td>
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<td>Introduction to Writing for the Screen</td>
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<td>CRWR_V 206-002</td>
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<td>Introduction to Writing for the Screen</td>
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<td>CRWR_V 208-001</td>
<td>CRWR_V 208</td>
<td>001</td>
<td>Introduction to Writing for Graphic Forms</td>
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<tr>
<td>CRWR_V 208-002</td>
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<td>Introduction to Writing for Graphic Forms</td>
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<td>CRWR_V 209-001</td>
<td>CRWR_V 209</td>
<td>001</td>
<td>Introduction to Writing Fiction</td>
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<td>CRWR_V 209-002</td>
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<td>Introduction to Writing Fiction</td>
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<td>CRWR_V 213-001</td>
<td>CRWR_V 213</td>
<td>001</td>
<td>Introduction to Writing for the New Media</td>
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<td>CRWR_V 213</td>
<td>002</td>
<td>Introduction to Writing for the New Media</td>
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**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-L_001** | CRWR_V | 220 | L_001 | Introduction to Creative Writing with an Indigenous Focus | W2 | Covers three genres from fiction, poetry, creative nonfiction, radio drama, radio feature, or regale. | 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, internet. 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, internet. Manuscript submission not required for admission. | In Person Learning | Wed | 5:00 p.m. - 6:30 p.m. |
**CRWR_V 301-001** | CRWR_V | 301 | 001 | Intermediate Writing Poetry | W2 | The writing of poetry in various forms using a combination of workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 213. | 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 workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 213. | 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 workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 213. | 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 workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 213. | 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 workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 213. | 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 workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 213. | 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 workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 213. | 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 215. | 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 215. | In Person Learning | Wed | 2:00 p.m. - 3:00 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 215. | In Person Learning | Wed | 2:00 p.m. - 3:00 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 216. | In Person Learning | Arranged | Arranged |
**CRWR_V 306-FFR** | CRWR_V | 306 | FFR | 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 216. | 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 216. | 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 216. | 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 217. | 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 217. | 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 graphics (comic, manga and graphic novel), using a combination of workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 216. | 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 216. | 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 216. | In Person Learning | Arranged | Arranged |
Intermediate Screenplay Workshop
2:00 p.m. - 4:00 p.m.

Writing Poetry I
9:30 a.m. - 11:00 a.m.

Interactive Storytelling
2:00 p.m. - 4:00 p.m.

Writing for New Media I
12:00 p.m. - 2:00 p.m.

Writing for Television I
10:00 a.m. - 12:00 p.m.

Intermediate Writing for Lyric Forms
2:00 p.m. - 5:00 p.m.

Writing for the Screen I
2:00 p.m. - 4:00 p.m.

Writing Genre Fiction
Wed
10:00 a.m. - 12:00 p.m.

Writing Creative Nonfiction I
Wed
10:00 a.m. - 12:00 p.m.

Writing for Children and Young Adults I
Wed
10:00 a.m. - 12:00 p.m.

Intermediate Graphic Forms Workshop
Wed
In Person Learning
12:00 p.m. - 2:00 p.m.

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.

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.

An intermediate level workshop class in writing poetry. Manuscript submission is not required for admission. Prerequisite: CRWR 301.

An intermediate level workshop class in writing for children and young adults. Manuscript submission is not required for admission. Prerequisite: CRWR 301.

An intermediate level workshop class in writing for the screen. Manuscript submission is not required for admission. Prerequisite: CRWR 306.

An intermediate level workshop class in writing for the screen. Manuscript submission is not required for admission. Prerequisite: CRWR 306.

An intermediate level workshop class in writing for the screen. Manuscript submission is not required for admission. Prerequisite: CRWR 306.

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An exploration of the writing of poetry, focusing on how a writer employs the technical elements of the craft of poetry. Manuscript submission not required for admission. Prerequisite: CRWR 209.

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<th>Instructor</th>
<th>Day</th>
<th>Time</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>CRWR 450 T_001</td>
<td>CRWR U</td>
<td>T</td>
<td>12:00 p.m. - 2:00 p.m.</td>
<td>6</td>
<td>A workshop class in the writing of graphic novel, manga, and other forms of illustrated writing. Restricted to Majors in Creative Writing. Prerequisite: CRWR 409. Credit will be granted for only one of CRWR 430 or CRWR 431.</td>
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<tr>
<td>CRWR 450 U</td>
<td>CRWR U</td>
<td>Tue</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>6</td>
<td>Writing for Graphic Forms I. 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. Credit will be granted for only one of CRWR 430 or CRWR 431.</td>
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<tr>
<td>CRWR 451 U</td>
<td>CRWR U</td>
<td>Tue</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<td>Writing for Television I. A workshop class in writing for television. Restricted to Majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<td>CRWR 452 U</td>
<td>CRWR U</td>
<td>Tue</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<td>Writing for Television II. A workshop class in writing for television. Restricted to Majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<tr>
<td>CRWR 453 U</td>
<td>CRWR U</td>
<td>Tue</td>
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<td>Writing for Children and Young Adults II. A workshop class in writing for children and young adults. Restricted to Majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<td>CRWR 454 U</td>
<td>CRWR U</td>
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<td>Writing for the Screen II. A workshop class in writing for the screen. Restricted to Majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<td>CRWR 455 U</td>
<td>CRWR U</td>
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<td>Writing for the Screen III. A workshop class in writing for the screen. Restricted to Majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<td>CRWR 456 U</td>
<td>CRWR U</td>
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<td>Writing for Graphic Forms II. A workshop class in writing graphic forms. The ability to draw is not required. Restricted to Majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<td>CRWR 457 U</td>
<td>CRWR U</td>
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<td>6</td>
<td>Writing for Graphic Forms III. A workshop class in writing graphic forms. The ability to draw is not required. Restricted to Majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<tr>
<td>CRWR 458 U</td>
<td>CRWR U</td>
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<td>Writing for the Stage II. A workshop class in writing dramatic pieces for film, television, or stage. Restricted to majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<tr>
<td>CRWR 459 U</td>
<td>CRWR U</td>
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<td>2:00 p.m. - 4:00 p.m.</td>
<td>6</td>
<td>Writing for the Stage III. A workshop class in writing dramatic pieces for film, television, or stage. Restricted to majors in Creative Writing. Credit will be granted for only one of CRWR 450 and CRWR 430.</td>
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<td>Advanced Writing of Poetry I</td>
<td>Advanced Writing of Poetry I</td>
<td>Advanced Writing of Poetry I</td>
<td>Advanced Writing for Children I</td>
<td>Advanced Writing of Creative Non-Fiction I</td>
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<td>Time</td>
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<td>Online Learning</td>
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In Person Learning

Advanced Writing for Television I

Online Learning

Advanced Writing for Lyric Forms I

In Person Learning

Advanced Writing for Graphic Forms II

Online Learning

Preparation for a Career in Writing

Preparation for a Career in Writing

Teaching Creative Writing

Advanced Writing for Graphic Forms II

Advanced Special Projects in Creative Writing

Thesis

Thesis

Thesis

Thesis
DENT 410-RES Dentistry I: Foundations of Clinical Dentistry
In Person Learning
Fri 10:00 a.m. - 12:00 p.m.
Prerequisite: DENT 410.
A multi-disciplinary course integrating didactic, simulation, clinical, and community service learning. This course is not eligible for Credit/D/Fail grading.

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In Person Learning
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Prerequisite: DENT 410.
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<th>Course Code</th>
<th>Course Title</th>
<th>Term</th>
<th>Continues in Year</th>
<th>Grading Option</th>
<th>Schedule Details</th>
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<td>DENT_V 510-002</td>
<td>Pediatric Dentistry Literature Review I</td>
<td>W1-2</td>
<td>Continues in year 2. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>DENT_V 511-001</td>
<td>Pediatric Dentistry Literature Review II</td>
<td>W1</td>
<td>Continues in year 3. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>DENT_V 512-001</td>
<td>Pediatric Dentistry Literature Review III</td>
<td>W1-2</td>
<td>Continues in year 3. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>DENT_V 513-001</td>
<td>The Pediatric Patient I</td>
<td>W1-2</td>
<td>Continues in year 2. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>DENT_V 514-001</td>
<td>The Pediatric Patient II</td>
<td>W1-2</td>
<td>Continues in year 3. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 515-001</td>
<td>The Pediatric Patient III</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>DENT_V 517-001</td>
<td>Pediatric Dentistry Case Review and Treatment Planning I</td>
<td>W1-2</td>
<td>Continues in year 2. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>DENT_V 518-001</td>
<td>Pediatric Dentistry Case Review and Treatment Planning II</td>
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<td>Continues in year 3. This course is not eligible for Credit/D/Fail grading.</td>
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<td>DENT_V 520-001</td>
<td>Oral Medicine II</td>
<td>W1-2</td>
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<td>DENT_V 522-001</td>
<td>Craniofacial Growth and Development</td>
<td>W1-2</td>
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<td>Prosthodontic Literature Review I</td>
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<td>Prosthodontic Literature Review II</td>
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<td>DENT_V 525-001</td>
<td>Prosthodontic Case Review and Treatment Planning I</td>
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<td>DENT_V 526-001</td>
<td>Prosthodontic Case Review and Treatment Planning II</td>
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<tr>
<td>DENT_V 527-001</td>
<td>Prosthodontic Treatment Planning and Outcomes Seminars I</td>
<td>W1-2</td>
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<td>DENT_V 528-001</td>
<td>Prosthodontic Treatment Planning and Outcomes Seminars II</td>
<td>W1-2</td>
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<td>DENT_V 529-001</td>
<td>Prosthodontic Treatment Planning and Outcomes Seminars III</td>
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<td>DENT_V 530-001</td>
<td>Medical Prosthodontics II</td>
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<td>DENT_V 535-001</td>
<td>Biomaterials</td>
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<td>DENT_V 536-001</td>
<td>Oral Cell Biology and Biochemistry</td>
<td>W2</td>
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<td>In Person Learning</td>
<td>Tue 10:00 a.m. - 12:00 p.m.</td>
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<td>Advanced Occlusion and Articulation</td>
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<td>Advanced Occlusion and Articulation</td>
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<td>DENT_V 544-001</td>
<td>Oral Microbiology and Immunology</td>
<td>W2</td>
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<td>W1-2</td>
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<td>DENT_V 561-C_003</td>
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<td>DENT_V 561-D_102</td>
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<td>3-0</td>
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<td>DENT_V 565-001</td>
<td>Biomechanics of Craniofacial Orthopedics and Orthodontics I</td>
<td>W1-2</td>
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<td>DENT_V 566-001</td>
<td>Biomechanics of Craniofacial Orthopedics and Orthodontics II</td>
<td>W1-2</td>
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<td>DENT_V 567-001</td>
<td>Orthodontic and Craniofacial Orthopedic Patient Care I</td>
<td>W1-2</td>
<td>3-0</td>
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<td>DENT_V 568-001</td>
<td>Orthodontic and Craniofacial Orthopedic Patient Care II</td>
<td>W1-2</td>
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<td>DENT_V 569-001</td>
<td>Orthodontic and Craniofacial Orthopedic Patient Care III</td>
<td>W1-2</td>
<td>3-0</td>
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<td>DENT_V 570-001</td>
<td>Periodontal Case Management</td>
<td>W1</td>
<td>3-0</td>
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<td>DENT_V 572-A_001</td>
<td>Literature Review in Periodontics</td>
<td>W1-2</td>
<td>3-0</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>DENT_V 573-A_001</td>
<td>Literature Review in Periodontics</td>
<td>W1-2</td>
<td>3-0</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 574-001</td>
<td>Periodontic Treatment Planning Seminars</td>
<td>W1-2</td>
<td>3-0</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 575-001</td>
<td>Implant Therapy</td>
<td>W1-2</td>
<td>3-0</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>DENT_V 575-003</td>
<td>Implant Therapy</td>
<td>W1</td>
<td>3-0</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 578-001</td>
<td>Endodontic Literature Review I</td>
<td>W1-2</td>
<td>3-0</td>
<td>In Person Learning</td>
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<tr>
<td>DENT_V 581-001</td>
<td>Endodontic Literature Review II</td>
<td>W1-2</td>
<td>3-0</td>
<td>In Person Learning</td>
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<tr>
<td>DENT_V 591-001</td>
<td>Endodontic Case Management I</td>
<td>W1-2</td>
<td>3-0</td>
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<td>Course Code</td>
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<td>Offered</td>
<td>Description</td>
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<tr>
<td>DENT_V 592-001</td>
<td>Endodontic Case Management II</td>
<td>W1-2</td>
<td>Modern endodontic technology and clinical endodontics. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading. [1-1-0]</td>
<td>Arranged</td>
<td>Arrange</td>
</tr>
<tr>
<td>DENT_V 594-001</td>
<td>Endodontic Case Review and Treatment Planning I</td>
<td>W1-2</td>
<td>Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading. [3-0-2]</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 595-001</td>
<td>Endodontic Case Review and Treatment Planning II</td>
<td>W1-2</td>
<td>Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading. [3-0-2]</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 596-001</td>
<td>Endodontic Case Review and Treatment Planning III</td>
<td>W1-2</td>
<td>Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading. [3-0-2]</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 599-001</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td>Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 599-101</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td>Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 599-201</td>
<td>M.Sc. Thesis</td>
<td>W1-2</td>
<td>Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 599-LEC</td>
<td>M.Sc. Thesis</td>
<td>W2</td>
<td>Enrolment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.</td>
<td>Tue</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>DENT_V 649-001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 649-002</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 649-003</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 649-SEM</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Sat</td>
<td>8:00 a.m. - 5:00 p.m.</td>
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<tr>
<td>DENT_V 711-001</td>
<td>Clinical Periodontics and Implant Surgery I</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Arrange</td>
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<tr>
<td>DENT_V 712-001</td>
<td>Clinical Periodontics and Implant Surgery II</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 713-001</td>
<td>Clinical Periodontics and Implant Surgery III</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 713-LEC</td>
<td>Clinical Periodontics and Implant Surgery III</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 715-001</td>
<td>Periodontal Therapy Seminars</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 721-001</td>
<td>Clinical Endodontics, Year 1</td>
<td>W1-2</td>
<td>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. [10-18]</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 722-001</td>
<td>Clinical Endodontics, Year 2</td>
<td>W1-2</td>
<td>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. [10-18]</td>
<td>Arranged</td>
<td>Arrange</td>
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<tr>
<td>DENT_V 723-001</td>
<td>Clinical Endodontics, Year 3</td>
<td>W1-2</td>
<td>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. [10-18]</td>
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<tr>
<td>DENT_V 725-001</td>
<td>Clinical Restorative Dentistry</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Arrange</td>
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<tr>
<td>DENT_V 726-001</td>
<td>Clinical Restorative Dentistry</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 727-001</td>
<td>Clinical Restorative Dentistry</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Arrange</td>
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<tr>
<td>DENT_V 760-001</td>
<td>Clinical Dentistry</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Arranged</td>
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<tr>
<td>Course Code</td>
<td>Section</td>
<td>Credits</td>
<td>Title</td>
<td>Schedule</td>
<td>Delivery Method</td>
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<td>DENT_V 769-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Seminars on Hospital Dentistry</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>DENT_V 756-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Oral Radiology</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>DENT_V 756-NMO</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Oral Radiology</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>DENT_V 773-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Orthodontic and Dentofacial Orthopedic Clinics I</td>
<td>W1-2</td>
<td>Continues in second year. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 773-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Orthodontic and Dentofacial Orthopedic Clinics II</td>
<td>W1-2</td>
<td>Continues in third year. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 773-SHM</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Orthodontic and Dentofacial Orthopedic Clinics II</td>
<td>W1</td>
<td>Continues in third year. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>DENT_V 773-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Orthodontic and Dentofacial Orthopedic Clinics III</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 773-NMO</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Orthodontic and Dentofacial Orthopedic Clinics III</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>DENT_V 773-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Orthodontic and Dentofacial Orthopedic Clinics III</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 775-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Interdisciplinary Care in Orthodontics and Dentofacial Orthopedics</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 775-002</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Interdisciplinary Care in Orthodontics and Dentofacial Orthopedics</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 777-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning I</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>DENT_V 777-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning II</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 777-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning III</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>DENT_V 779-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Interdisciplinary Graduate Seminars: Interdisciplinary Treatment Planning III</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 780-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Clinical Pediatric Dentistry I</td>
<td>W1-2</td>
<td>Continues in year 5. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 780-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Clinical Pediatric Dentistry II</td>
<td>W1-2</td>
<td>Continues in year 5. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 780-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Clinical Pediatric Dentistry III</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 780-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Hospital Clinical Pediatrics I</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 780-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Hospital Clinical Pediatrics II</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DENT_V 780-001</td>
<td>DENT_V</td>
<td>3.0</td>
<td>Hospital Clinical Pediatrics III</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>DES_V 101-001</td>
<td>DES_V</td>
<td>0.5</td>
<td>Introductory Workshop</td>
<td>W1</td>
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<tr>
<td>DES_V 110-001</td>
<td>DES_V</td>
<td>0.5</td>
<td>Measured Architectural Drawing</td>
<td>W1</td>
<td>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. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>DES_V 110-001</td>
<td>DES_V</td>
<td>0.5</td>
<td>Measured Architectural Drawing</td>
<td>W2</td>
<td>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.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Section</td>
<td>Credits</td>
<td>Title</td>
<td>Notes</td>
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<tr>
<td>DES_V 110-02</td>
<td>130</td>
<td>002</td>
<td>Design, Culture and Ecology</td>
<td>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.</td>
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<tr>
<td>DES_V 110-01</td>
<td>130</td>
<td>001</td>
<td>Design, Culture and Ecology</td>
<td>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.</td>
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<tr>
<td>DES_V 110-10</td>
<td>130</td>
<td>010</td>
<td>Design, Culture and Ecology</td>
<td>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.</td>
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<tr>
<td>DES_V 110-10</td>
<td>130</td>
<td>010</td>
<td>Design, Culture and Ecology</td>
<td>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.</td>
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<tr>
<td>DES_V 110-10</td>
<td>130</td>
<td>010</td>
<td>Design, Culture and Ecology</td>
<td>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.</td>
<td></td>
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<tr>
<td>DES_V 110-10</td>
<td>130</td>
<td>010</td>
<td>Design, Culture and Ecology</td>
<td>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.</td>
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<td>DES_V 110-10</td>
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<td>DES_V 110-10</td>
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<td>DES_V 110-10</td>
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<td>Design, Culture and Ecology</td>
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<tr>
<td>DES_V 110-10</td>
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<td>Design, Culture and Ecology</td>
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<tr>
<td>DES_V 110-10</td>
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<td>Design, Culture and Ecology</td>
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<td>DES_V 110-10</td>
<td>130</td>
<td>010</td>
<td>Design, Culture and Ecology</td>
<td>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.</td>
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</tr>
</tbody>
</table>
History of the Design of the Built Environment

T02 9:00 a.m. - 11:00 a.m. Architecture and Urbanism in Context: Vancouver and its Region

In Person Learning West 1 1:30 p.m. - 5:00 p.m.

DES_V 220-001 220 W1 Architecture and Urbanism in Context: Vancouver and its Region

In Person Learning West 6 9:30 a.m. - 12:30 p.m.

DES_V 220-002 220 W1 Architecture and Urbanism in Context: Vancouver and its Region

In Person Learning West 6 11:00 a.m. - 1:00 p.m.

DES_V 220-003 220 W1 Architecture and Urbanism in Context: Vancouver and its Region

In Person Learning West 6 2:30 p.m. - 4:30 p.m.

DES_V 220-004 220 W1 Architecture and Urbanism in Context: Vancouver and its Region

In Person Learning West 6 5:00 p.m. - 6:30 p.m.

DES_V 221-T01 220 W1 Design Studio IV - Vancouver

In Person Learning West 6 7:00 p.m. - 8:30 p.m.

DES_V 230-T01 220 W1 Design Media I

In Person Learning West 6 11:00 a.m. - 12:30 p.m.

DES_V 230-T02 220 W1 Design Media II

In Person Learning West 6 2:00 p.m. - 5:00 p.m.

DES_V 230-T03 220 W1 Design Media III

In Person Learning West 6 7:00 p.m. - 8:30 p.m.

Sustainability by Design

In Person Learning Wed 9:30 a.m. - 11:00 a.m.

DES_V 230-T04 220 W1 Sustainability by Design

In Person Learning Wed 9:30 a.m. - 11:00 a.m.

DES_V 230-T05 220 W1 Sustainability by Design

In Person Learning Wed 10:00 a.m. - 12:00 p.m.

DES_V 230-T06 220 W1 Sustainability by Design

In Person Learning Wed 11:00 a.m. - 1:00 p.m.

DES_V 230-T07 220 W1 Sustainability by Design

In Person Learning Wed 12:30 p.m. - 2:00 p.m.

DES_V 230-T08 220 W1 Sustainability by Design

In Person Learning Wed 1:30 p.m. - 3:00 p.m.

DES_V 230-T09 220 W1 Sustainability by Design

In Person Learning Wed 3:00 p.m. - 5:00 p.m.

DES_V 230-T10 220 W1 Sustainability by Design

In Person Learning Wed 7:00 p.m. - 8:30 p.m.

DES_V 230-T11 220 W1 Sustainability by Design

In Person Learning Wed 8:30 p.m. - 9:30 p.m.

DES_V 230-T12 220 W1 Sustainability by Design

In Person Learning Thu 9:30 a.m. - 11:00 a.m.

DES_V 230-T13 220 W1 Sustainability by Design

In Person Learning Thu 12:00 p.m. - 2:00 p.m.

DES_V 230-T14 220 W1 Sustainability by Design

In Person Learning Thu 2:30 p.m. - 4:30 p.m.

DES_V 230-T15 220 W1 Sustainability by Design

In Person Learning Thu 4:30 p.m. - 6:00 p.m.

DES_V 230-T16 220 W1 Sustainability by Design

In Person Learning Thu 6:30 p.m. - 8:30 p.m.

DES_V 230-T17 220 W1 Sustainability by Design

In Person Learning Thu 8:30 p.m. - 10:00 p.m.

DES_V 230-T18 220 W1 Sustainability by Design

In Person Learning Thu 10:00 p.m. - 12:00 a.m.

DES_V 230-T19 220 W1 Sustainability by Design

In Person Learning Fri 9:30 a.m. - 11:00 a.m.

DES_V 230-T20 220 W1 Sustainability by Design

In Person Learning Fri 12:00 p.m. - 2:00 p.m.

DES_V 230-T21 220 W1 Sustainability by Design

In Person Learning Fri 2:30 p.m. - 4:30 p.m.

DES_V 230-T22 220 W1 Sustainability by Design

In Person Learning Fri 4:30 p.m. - 6:00 p.m.

DES_V 230-T23 220 W1 Sustainability by Design

In Person Learning Fri 6:30 p.m. - 8:30 p.m.

DES_V 230-T24 220 W1 Sustainability by Design

In Person Learning Fri 8:30 p.m. - 10:00 p.m.

DES_V 230-T25 220 W1 Sustainability by Design

In Person Learning Fri 10:00 p.m. - 12:00 a.m.

DES_V 230-T26 220 W1 Sustainability by Design

In Person Learning Sat 9:30 a.m. - 11:00 a.m.

DES_V 230-T27 220 W1 Sustainability by Design

In Person Learning Sat 12:00 p.m. - 2:00 p.m.

DES_V 230-T28 220 W1 Sustainability by Design

In Person Learning Sat 2:30 p.m. - 4:30 p.m.

DES_V 230-T29 220 W1 Sustainability by Design

In Person Learning Sat 4:30 p.m. - 6:00 p.m.

DES_V 230-T30 220 W1 Sustainability by Design

In Person Learning Sat 6:30 p.m. - 8:30 p.m.

DES_V 230-T31 220 W1 Sustainability by Design

In Person Learning Sat 8:30 p.m. - 10:00 p.m.
History of the Design of the Built Environment

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    Web

10:00 a.m. - 12:30 p.m.

Topics in Architectural History I (Pre-1900)

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 320, ARCH 405 or ARCH 505. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.

In Person Learning    Arranged

Arranged

9:30 a.m. - 11:00 a.m.

Topics in Architectural History II (1900-Present)

History of architecture in the post-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 322, ARCH 404 or ARCH 504. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 320.

In Person Learning    Arranged

Arranged

9:30 a.m. - 11:00 a.m.

Arranged

9:30 a.m. - 11:00 a.m.

Architectural Design Studio V - Urban Systems Scale Synthesis

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.

Architectural Design Studio VI - Away

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.

Architectural Design Studio VII

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 DES 301, 302, 303 and DES 401.

In Person Learning    Mon

1:30 p.m. - 5:00 p.m.

Design Theory

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

9:30 a.m. - 11:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCI_V 100-001</td>
<td>Online Learning</td>
<td>Critical analysis of health care trends and oral health care delivery with emphasis on underserved populations. Prerequisite: Prerequisite: DHYG 310. Corequisite: DHYG 461. And Faculty approval.</td>
</tr>
<tr>
<td>DSCI_V 100-002</td>
<td>Online Learning</td>
<td>Critical Appraisal and Professional Writing in Quantitative Research. Prerequisite: DHYG 461.</td>
</tr>
<tr>
<td>DSCI_V 100-003</td>
<td>Online Learning</td>
<td>Critical Appraisal and Professional Writing in Qualitative Research. Prerequisite: DHYG 461.</td>
</tr>
<tr>
<td>DMED_V 500-101</td>
<td>Online Learning</td>
<td>Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12</td>
</tr>
<tr>
<td>DSOC_V 100-002</td>
<td>Online Learning</td>
<td>Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12</td>
</tr>
<tr>
<td>DSOC_V 100-003</td>
<td>Online Learning</td>
<td>Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12</td>
</tr>
<tr>
<td>DSOC_V 100-004</td>
<td>Online Learning</td>
<td>Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12</td>
</tr>
</tbody>
</table>
**In Person Learning**

**Tue Thu**

W2

Visualization for Data Science

100

9:30 a.m. - 11:00 a.m.

3:30 p.m. - 5:00 p.m.

**W2**

In Person Learning

100

Programming for Data Science

4:00 p.m. - 5:30 p.m.

3:00 p.m. - 4:30 p.m.

Mon Fri

9:30 a.m. - 11:00 a.m.

8:30 a.m. - 10:00 a.m.

L2B

Arranged

W1

8:00 a.m. - 9:30 a.m.

007

101

Programming for Data Science

310

003

511

In Person Learning

006

Fairness, Accountability, Transparency and Ethics (FATE) in Data Science

9:30 a.m. - 11:00 a.m.

Mon Wed

In Person Learning

11:00 a.m. - 12:30 p.m.

320

Mon Fri

2:00 p.m. - 4:00 p.m.

201

8:00 a.m. - 9:30 a.m.

Thu

In Person Learning

Mon Wed

Introduction to Data Science

320

12:30 p.m. - 2:00 p.m.

Introduction to Data Science

In Person Learning

Tue Thu

Visualization for Data Science

Introduction to Data Science

In Person Learning

100

001

W2

W1

In Person Learning

201

3:30 p.m. - 5:00 p.m.

In Person Learning

Thu

Mon Wed

221.

I/O. Classes, objects, methods, and libraries. This course is not eligible for Credit/D/Fail grading.


Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12

Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12

Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12

Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12

Use of data science tools to summarize, visualize, and analyze data. Sensible workflows and clear interpretations are emphasized. (3-0-1) Prerequisite: MATH 12

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 208, CPSC 210, CPEN 221.

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 208, CPSC 210, CPEN 221.

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 208, CPSC 210, CPEN 221.

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 208, CPSC 210, CPEN 221.

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 208, CPSC 210, CPEN 221.
Programming for Data Science
In Person Learning
2:00 p.m. - 4:00 p.m.

Introductions and Course Overview
In Person Learning
9:30 a.m. - 11:00 a.m.

This course is not eligible for Credit/D/Fail grading.

Introduction to software, shells, tools, and file systems for use in the Data Science program. 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.

Development Environments (IDEs). Problem resolution skills. This course is not eligible for Credit/D/Fail grading.

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.

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.

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.

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.
**Collaborative Software Development**

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

In Person Learning
Mon Wed
10:00 a.m. - 12:30 p.m.

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

In Person Learning
Mon Wed
9:30 a.m. - 11:00 a.m.

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

In Person Learning
Tue Thu
10:00 a.m. - 12:30 p.m.

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

In Person Learning
Tue
2:00 p.m. - 4:00 p.m.

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

In Person Learning
Mon
2:00 p.m. - 4:00 p.m.

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

In Person Learning
Thu
2:00 p.m. - 4:00 p.m.

W1
Interactive and non-interactive data analysis. Scripting, Dynamic reporting, Reproducibility. Prerequisite: DSCI 511, DSCI 521.

In Person Learning
Wed
2:00 p.m. - 4:00 p.m.

**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 511, DSCI 521.

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 511, DSCI 521.

In Person Learning
Mon Wed
11:00 a.m. - 12:30 p.m.

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 511, DSCI 521.

In Person Learning
Mon Wed
9:30 a.m. - 11:00 a.m.

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 511, DSCI 521.

In Person Learning
Mon
2:00 p.m. - 4:00 p.m.

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 511, DSCI 521.

In Person Learning
Thu
2:00 p.m. - 4:00 p.m.

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 511, DSCI 521.

In Person Learning
Thu
2:00 p.m. - 4:00 p.m.
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.

Decriptive 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.

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: All of DSCI 511, DSCI 521.

In Person Learning: Tue 2:00 p.m. - 4:00 p.m.

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 9:30 a.m. - 11:00 a.m.

In Person Learning: Mon 2:00 p.m. - 4:00 p.m.

In Person Learning: Tue 2:00 p.m. - 4:00 p.m.

Privacy, Ethics, and Security

In Person Learning: Wed 9:30 a.m. - 11:00 a.m.

In Person Learning: Tue Thu 2:00 p.m. - 4:00 p.m.

In Person Learning: Mon 9:30 a.m. - 11:00 a.m.

In Person Learning: Tue Thu 2:00 p.m. - 4:00 p.m.

Data Visualization I

In Person Learning: W2

In Person Learning: W2

Web and Cloud Computing

In Person Learning: L03

In Person Learning: L04

Web and Cloud Computing

In Person Learning: W2

In Person Learning: W2

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.

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.

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.

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.

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.

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 9:30 a.m. - 11:00 a.m.

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.

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.

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 9:30 a.m. - 11:00 a.m.

Privacy, Ethics, and Security

In Person Learning: W1

Privacy, Ethics, and Security

In Person Learning: L01

Privacy, Ethics, and Security

In Person Learning: L02

Privacy, Ethics, and Security

In Person Learning: L03

Privacy, Ethics, and Security

In Person Learning: L04

Privacy, Ethics, and Security

In Person Learning: L05

Privacy, Ethics, and Security

In Person Learning: L06

Privacy, Ethics, and Security

In Person Learning: Thu 9:30 a.m. - 11:00 a.m.

Privacy, Ethics, and Security

In Person Learning: Thu 9:30 a.m. - 11:00 a.m.

Privacy, Ethics, and Security

In Person Learning: Thu 9:30 a.m. - 11:00 a.m.

Privacy, Ethics, and Security

In Person Learning: Thu 9:30 a.m. - 11:00 a.m.

Privacy, Ethics, and Security

In Person Learning: Thu 9:30 a.m. - 11:00 a.m.
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<thead>
<tr>
<th>Course Code</th>
<th>Lecture</th>
<th>Course Name</th>
<th>In Person Learning</th>
<th>Time</th>
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<tbody>
<tr>
<td>DSCI_V542-002</td>
<td>W2</td>
<td>Communication and Argumentation</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>DSCI_V543-003</td>
<td>L05</td>
<td>Communication and Argumentation</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>DSCI_V543-004</td>
<td>L05</td>
<td>Communication and Argumentation</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>DSCI_V551-001</td>
<td>W1</td>
<td>Descriptive Statistics and Probability for Data Science</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
</tr>
<tr>
<td>DSCI_V551-002</td>
<td>W1</td>
<td>Descriptive Statistics and Probability for Data Science</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>DSCI_V551-003</td>
<td>W1</td>
<td>Descriptive Statistics and Probability for Data Science</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>DSCI_V551-004</td>
<td>W1</td>
<td>Descriptive Statistics and Probability for Data Science</td>
<td>In Person Learning</td>
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<tr>
<td>DSCI_V552-001</td>
<td>W2</td>
<td>Statistical Inference and Computation I</td>
<td>In Person Learning</td>
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<tr>
<td>DSCI_V552-002</td>
<td>W2</td>
<td>Statistical Inference and Computation I</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>DSCI_V552-003</td>
<td>W2</td>
<td>Statistical Inference and Computation I</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>DSCI_V552-004</td>
<td>W2</td>
<td>Statistical Inference and Computation I</td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>DSCI_V553-001</td>
<td>W2</td>
<td>Statistical Inference and Computation II</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>DSCI_V553-002</td>
<td>W2</td>
<td>Statistical Inference and Computation II</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>DSCI_V553-003</td>
<td>W2</td>
<td>Statistical Inference and Computation II</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
</tr>
<tr>
<td>DSCI_V553-004</td>
<td>W2</td>
<td>Statistical Inference and Computation II</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
</tbody>
</table>

**Prerequisite:**
- All of DSCI 553, DSCI 561.
- DSCI 551.
- DSCI 561.
- DSCI 552.

**Contemporary examples. Simulations.** This course is not eligible for Credit/D/Fail grading.

- Multiple hypothesis testing, false discovery rate. Two-group comparisons, Bayesian paradigm.
- 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.
- 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.
- 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.
- 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.

**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.
- 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.
- 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.
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- This course is not eligible for Credit/D/Fail grading.
- This course is not eligible for Credit/D/Fail grading.
In Person Learning 2:00 p.m. - 4:00 p.m.

Experimentation and Causal Inference 9:30 a.m. - 11:00 a.m.

Unsupervised Learning 2:00 p.m. - 4:00 p.m.

Regression II 11:00 a.m. - 12:30 p.m.

Mixed effects. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 561.

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.

Contemporary examples. Simulations. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 553, DSCI 561.


Feature and Model Selection

Support Vector Machines. Random Forests. Ensemble Classifiers. Graphical models. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.


Decision trees, k-th nearest neighbour classifiers, Naive-Bayes classifiers, logistic regression. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

Feature and Model Selection

Support Vector Machines. Random Forests. Ensemble Classifiers. Graphical models. 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.  
Advanced Machine Learning  
Online Learning  
Wed  
2:00 p.m. - 4:00 p.m.  
Foundations of Curriculum and Instruction in Early Childhood Education  
2:00 p.m. - 4:00 p.m.  
Advanced Machine Learning  
Tue Thu  
Online Learning  
Early Learning Curriculum in the Pre-School Years  
Arranged  
2:00 p.m. - 4:00 p.m.  
Online Learning  
This course is not eligible for Credit/D/Fail grading.

DSCI_V 573-L04  DSCI_V 573  L04  Feature and Model Selection  
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 574-001  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  
Thu  
2:00 p.m. - 4:00 p.m.  
DSCI_V 574-002  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  
Mon Wed  
9:30 a.m. - 11:00 a.m.  
DSCI_V 574-001  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 Wed  
9:30 a.m. - 11:00 a.m.  
DSCI_V 574-004  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  
10:00 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  
10:00 a.m. - 12:30 p.m.  
DSCI_V 575-001  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 575-002  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 575-003  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 Wed  
2:00 p.m. - 4:00 p.m.  
DSCI_V 575-004  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.  
ECCD_V 400-64A  ECCD_V 400  64A  Introduction to Early Childhood Education and Care  
W1  This course is not eligible for Credit/D/Fail grading. Online Learning  
Arranged  
Arranged  
ECCD_V 400-64B  ECCD_V 400  64B  Introduction to Early Childhood Education and Care  
W1  This course is not eligible for Credit/D/Fail grading. Online Learning  
Arranged  
Arranged  
ECCD_V 400-66D  ECCD_V 400  66D  Introduction to Early Childhood Education and Care  
W2  This course is not eligible for Credit/D/Fail grading. Online Learning  
Arranged  
Arranged  
ECCD_V 401-63A  ECCD_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  
ECCD_V 401-63B  ECCD_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  
ECCD_V 401-63C  ECCD_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  
ECCD_V 401-63D  ECCD_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  
ECCD_V 405-A_63A  ECCD_V 405  A_63A  Foundations of Curriculum and Instruction in Early Childhood Education  
W1  Online Learning  
Arranged  
Arranged  
ECCD_V 405-A_63C  ECCD_V 405  A_63C  Foundations of Curriculum and Instruction in Early Childhood Education  
W2  Online Learning  
Arranged  
Arranged  
ECCD_V 405-63A  ECCD_V 405  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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Learning Mode</th>
<th>Delivery Method</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECED_V 406-62C</td>
<td>406</td>
<td>GLC</td>
<td>Early Learning Curriculum in the Pre-School Years</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 406-62D</td>
<td>406</td>
<td>GLD</td>
<td>Early Learning Curriculum in the Pre-School Years</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 407-62A</td>
<td>407</td>
<td>GIA</td>
<td>Supporting Early Learning in the Pre-School Years</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 407-62B</td>
<td>407</td>
<td>GIB</td>
<td>Supporting Early Learning in the Pre-School Years</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 407-62C</td>
<td>407</td>
<td>GIC</td>
<td>Supporting Early Learning in the Pre-School Years</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 407-62D</td>
<td>407</td>
<td>GLD</td>
<td>Supporting Early Learning in the Pre-School Years</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 416-63A</td>
<td>416</td>
<td>GIA</td>
<td>Kindergarten Curriculum</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 417-63C</td>
<td>417</td>
<td>GIC</td>
<td>Supporting Learning in the Kindergarten Year</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 420-63A</td>
<td>420</td>
<td>GIA</td>
<td>History of Early Childhood Education</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 420-63B</td>
<td>420</td>
<td>GIB</td>
<td>History of Early Childhood Education</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 420-63C</td>
<td>420</td>
<td>GIC</td>
<td>History of Early Childhood Education</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 420-63D</td>
<td>420</td>
<td>GLD</td>
<td>History of Early Childhood Education</td>
<td>W2</td>
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<tr>
<td>ECED_V 421-63A</td>
<td>421</td>
<td>GIA</td>
<td>Supporting Young Children Through Home, School, and Community Relationships</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 421-63C</td>
<td>421</td>
<td>GIC</td>
<td>Supporting Young Children Through Home, School, and Community Relationships</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 438-62A</td>
<td>438</td>
<td>GIA</td>
<td>Observation and Documentation in Early Childhood Settings</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 438-62B</td>
<td>438</td>
<td>GIB</td>
<td>Observation and Documentation in Early Childhood Settings</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 438-62C</td>
<td>438</td>
<td>GIC</td>
<td>Observation and Documentation in Early Childhood Settings</td>
<td>W2</td>
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<tr>
<td>ECED_V 439-62A</td>
<td>439</td>
<td>GIA</td>
<td>Assessment of Infants and Young Children with Special Needs</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 439-62C</td>
<td>439</td>
<td>GIC</td>
<td>Assessment of Infants and Young Children with Special Needs</td>
<td>W2</td>
</tr>
<tr>
<td>ECED_V 440-62A</td>
<td>440</td>
<td>GIA</td>
<td>Supporting Social and Communication Development in Infants and Young Children with Special Needs</td>
<td>W1</td>
</tr>
<tr>
<td>ECED_V 440-62C</td>
<td>440</td>
<td>GIC</td>
<td>Supporting Social and Communication Development in Infants and Young Children with Special Needs</td>
<td>W2</td>
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<tr>
<td>ECED_V 441-62A</td>
<td>441</td>
<td>GIA</td>
<td>Early Intervention for Infants and Young Children with Sensory Loss and Motor Impairments</td>
<td>W1</td>
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<tr>
<td>ECED_V 441-62C</td>
<td>441</td>
<td>GIC</td>
<td>Early Intervention for Infants and Young Children with Sensory Loss and Motor Impairments</td>
<td>W2</td>
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<tr>
<td>ECED_V 443-62A</td>
<td>443</td>
<td>GIA</td>
<td>Supporting Indigenous Infants and Young Children within the Context of Their Communities</td>
<td>W1</td>
</tr>
</tbody>
</table>
Supporting Indigenous Infants and Young Children within the Context of Their Communities

Community Supports and Services for Young Children in Early Childhood Programs

Supporting Young Children's Social Emotional Learning in Early Childhood Programs

Sociocultural Perspectives in Early Childhood Education

Leadership and Policy in Early Childhood Education

Special Course in Early Childhood Education

Problems in Early Childhood Education
ECON V 580-B_051  
**ECED V**  
SBE 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

ECON V 580-B_052  
**ECED V**  
SBE 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

ECON V 580-C_051  
**ECED V**  
SBE 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

ECON V 590-E_62A  
**ECED V**  
SBE E  E_62A  
Graduating Project  
W2  
Pass/Fail. This course is not eligible for Credit/D/Fail grading.  
Online Learning  
Arranged  
Arranged

ECON V 599-A_051  
**ECED V**  
SWE A  A_051  
Master's Thesis  
W1  
This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

ECON V 599-A_052  
**ECED V**  
SWE A  A_052  
Master's Thesis  
W2  
This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

ECON V 599-A_053  
**ECED V**  
SWE 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  
2:00 p.m. - 3:00 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  
3:30 a.m. - 4:00 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  
10:30 a.m. - 11:00 a.m.

ECON V 101-015  
**ECON V**  
101  015  
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  
12:30 p.m. - 1:00 p.m.

ECON V 101-016  
**ECON V**  
101  016  
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 101-017  
**ECON V**  
101  017  
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  
1:00 p.m. - 2:00 p.m.

ECON V 101-018  
**ECON V**  
101  018  
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  
4:00 p.m. - 5:00 p.m.

ECON V 101-019  
**ECON V**  
101  019  
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  
4:00 p.m. - 5:00 p.m.

ECON V 101-018  
**ECON V**  
101  018  
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  
5:00 p.m. - 6:00 p.m.

ECON V 101-016  
**ECON V**  
101  016  
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  
4:00 p.m. - 5:00 p.m.

ECON V 101-010  
**ECON V**  
101  010  
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  
5:00 p.m. - 6:00 p.m.

ECON V 101-015  
**ECON V**  
101  015  
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  
Wed  
4:00 p.m. - 5:00 p.m.

ECON V 101-017  
**ECON V**  
101  017  
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  
Wed  
5:00 p.m. - 6:00 p.m.
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 ECON 101 or ECON 310. Equivalency: ECON 110.

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 ECON 101 or ECON 310. Equivalency: ECON 110.

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 ECON 101 or ECON 310. Equivalency: ECON 110.

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 ECON 101 or ECON 310. Equivalency: ECON 110.

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 ECON 101 or ECON 310. Equivalency: ECON 110.

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 ECON 101 or ECON 310. Equivalency: ECON 110.
Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, employment, national income accounting, interest and exchange rates, money and banking, the balance of trade. Credit will be granted for only one of ECON 102 or ECON 311. Equivalency: ECON 311.

Introduction to consumer behaviour, producer theory, competitive market equilibrium, welfare economics, monopoly, oligopoly, and foundations of strategic interactions. Equivalency: ECON 310.

Principles of Microeconomics

Mon Wed Fri
9:30 a.m. - 11:00 a.m.

Principles of Microeconomics

Tue Thu
4:00 p.m. - 5:00 p.m.

Principles of Microeconomics

Fri
5:00 p.m. - 6:00 p.m.

Principles of Microeconomics

Wed
6:30 p.m. - 7:30 p.m.

Principles of Microeconomics

In Person Learning
Fri
5:00 p.m. - 6:00 p.m.

Principles of Microeconomics

In Person Learning
W1
6:30 p.m. - 7:30 p.m.

Principles of Microeconomics

In Person Learning
Thu
4:00 p.m. - 5:00 p.m.

Principles of Microeconomics

In Person Learning
W1
5:00 p.m. - 6:00 p.m.

Principles of Microeconomics

In Person Learning
Tue
2:00 p.m. - 3:00 p.m.

Principles of Microeconomics

In Person Learning
W1
5:00 p.m. - 6:00 p.m.

Principles of Microeconomics

In Person Learning
W1
4:00 p.m. - 5:00 p.m.

Principles of Microeconomics

In Person Learning
W1
5:00 p.m. - 6:00 p.m.
Principles of Macroeconomics

Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, employment, national income accounting, interest and exchange rates, money and banking, the balance of trade. Credit will be granted for only one of ECON 102 or ECON 311. Equivalency: ECON 311

Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, employment, national income accounting, interest and exchange rates, money and banking, the balance of trade. Credit will be granted for only one of ECON 102 or ECON 311.

In Person Learning

Wed

6:00 p.m. - 7:00 p.m.

Principles of Macroeconomics

Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, employment, national income accounting, interest and exchange rates, money and banking, the balance of trade. Credit will be granted for only one of ECON 102 or ECON 311.

In Person Learning

Thu

6:00 p.m. - 7:00 p.m.

Principles of Macroeconomics

Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, employment, national income accounting, interest and exchange rates, money and banking, the balance of trade. Credit will be granted for only one of ECON 102 or ECON 311.

In Person Learning

Fri

6:00 p.m. - 7:00 p.m.
Making Sense of Economic Data

L9B 5:00 p.m. - 6:00 p.m. Mon
4:00 p.m. - 5:00 p.m. Wed

W1

Introduction to Strategic Thinking

W1

W1

W1

Making Sense of Economic Data

L1A Principles of Macroeconomics W2
Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, employment, rational income accounting, interest and exchange rates, money and banking, the balance of trade. Credit will be granted for only one of ECON 102 or ECON 311.
Equivalency: ECON 311

In Person Learning Tue 5:00 p.m. - 6:00 p.m.

ECON 102-L08 Principles of Macroeconomics W2
Elements of theory and of Canadian policy and institutions concerning the economics of growth and business cycles, employment, rational income accounting, interest and exchange rates, money and banking, the balance of trade. Credit will be granted for only one of ECON 102 or ECON 311.
Equivalency: ECON 311

In Person Learning Thu 4:00 p.m. - 5:00 p.m.

ECON 221-L01 Introduction to Strategic Thinking W1
How individuals and businesses interact in strategic situations with applications in a wide range of topics which may include economics, business, politics, law and biology. Focus on developing intuition. May not be taken for credit by: i) students with fourth-year standing in ECON or the B.I.E., or ii) students that have taken ECON 421 or MATH 349. Credit will be granted for only one of ECON 221 or ECON 313. Prerequisite: One of ECON 201, ECON 310.

In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

ECON 221-L1A Introduction to Strategic Thinking W1
How individuals and businesses interact in strategic situations with applications in a wide range of topics which may include economics, business, politics, law and biology. Focus on developing intuition. May not be taken for credit by: i) students with fourth-year standing in ECON or the B.I.E., or ii) students that have taken ECON 421 or MATH 349. Credit will be granted for only one of ECON 221 or ECON 313. Prerequisite: One of ECON 201, ECON 310.

In Person Learning Mon 4:00 p.m. - 5:00 p.m.

ECON 221-L1B Introduction to Strategic Thinking W1
How individuals and businesses interact in strategic situations with applications in a wide range of topics which may include economics, business, politics, law and biology. Focus on developing intuition. May not be taken for credit by: i) students with fourth-year standing in ECON or the B.I.E., or ii) students that have taken ECON 421 or MATH 349. Credit will be granted for only one of ECON 221 or ECON 313. Prerequisite: One of ECON 201, ECON 310.

In Person Learning Wed 5:00 p.m. - 6:00 p.m.

ECON 221-L1C Introduction to Strategic Thinking W1
How individuals and businesses interact in strategic situations with applications in a wide range of topics which may include economics, business, politics, law and biology. Focus on developing intuition. May not be taken for credit by: i) students with fourth-year standing in ECON or the B.I.E., or ii) students that have taken ECON 421 or MATH 349. Credit will be granted for only one of ECON 221 or ECON 313. Prerequisite: One of ECON 201, ECON 310.

In Person Learning Wed 5:00 p.m. - 6:00 p.m.

ECON 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 221, ECON 227, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 249, STAT 251. Prerequisite: Either (i) one of ECON 101, ECON 313, ECON 310, ECON 312 or (ii) ECON 227.

In Person Learning Thu 9:30 a.m. - 11:00 a.m.

ECON 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 221, ECON 227, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 249, STAT 251. Prerequisite: Either (i) one of ECON 101, ECON 313, ECON 310, ECON 312 or (ii) ECON 227.

In Person Learning Mon 4:00 p.m. - 5:00 p.m.

ECON 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 221, ECON 227, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 249, STAT 251. Prerequisite: Either (i) one of ECON 101, ECON 313, ECON 310, ECON 312 or (ii) ECON 227.

In Person Learning Wed 5:00 p.m. - 6:00 p.m.

ECON 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 221, ECON 227, STAT 241, STAT 251. Credit will be granted for only one of ECON 226, ECON 227, STAT 249, STAT 251. Prerequisite: Either (i) one of ECON 101, ECON 313, ECON 310, ECON 312 or (ii) ECON 227.

In Person Learning Mon 4:00 p.m. - 5:00 p.m.

ECON 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 Thu 2:00 p.m. - 3:00 p.m.

ECON 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 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 Thu 2:00 p.m. - 3:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instructor</th>
<th>Time</th>
<th>Location</th>
<th>Title</th>
</tr>
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<tr>
<td>ECON 255-002</td>
<td>ECON_V</td>
<td>255</td>
<td>002</td>
<td>Understanding Globalization</td>
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<td>ECON_V</td>
<td>255</td>
<td>L01</td>
<td>Understanding Globalization</td>
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<td>255</td>
<td>L02</td>
<td>Understanding Globalization</td>
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<td>ECON 255-003</td>
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<td>255</td>
<td>L03</td>
<td>Understanding Globalization</td>
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<td>ECON 255-103</td>
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<td>255</td>
<td>L04</td>
<td>Understanding Globalization</td>
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</tbody>
</table>

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 102 and one of ECON 255, ECON 311.

In Person Learning: Tue Thu 5:00 p.m. - 6:30 p.m.

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 102 and one of ECON 255, ECON 311.

In Person Learning: Wed 5:00 p.m. - 6:00 p.m.

Consumer behaviour, producer theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 301, ECON 304, ECON 311, COMM 295 or FRE 295. Prerequisite: One of ECON 101, ECON 210 and one of MATH 100, MATH 101, MATH 102, MATH 103, MATH 104, MATH 110, MATH 111, MATH 112, MATH 113, MATH 114 and one of MATH 101, MATH 103, MATH 105, MATH 121.

In Person Learning: Mon Wed 2:00 p.m. - 3:30 p.m.
Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, ECON 310 and one of MATH 100, MATH 102, MATH 104, MATH 105, MATH 120, MATH 121.

In Person Learning. Tue Thu 2:00 p.m. - 3:30 p.m.

**ECON 301-004**

W2

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Arranged Arranged

**ECON 301-001**

W1

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Mon 6:00 p.m. - 7:00 p.m.

**ECON 301-002**

W1

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Wed 6:00 p.m. - 7:00 p.m.

**ECON 301-003**

L2

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Wed 6:00 p.m. - 7:00 p.m.

**ECON 301-004**

L3

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Mon 6:00 p.m. - 7:00 p.m.

**ECON 301-005**

L5

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Mon 6:00 p.m. - 7:00 p.m.

**ECON 301-006**

L6

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Tue 6:00 p.m. - 7:00 p.m.

**ECON 301-007**

L7

Intermediate Microeconomic Analysis I

Consumer behaviour, produce theory, competitive market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 302, ECON 304, ECON 305, COMM 295 or FIE 295. Prerequisite: One of ECON 201, 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 105, MATH 121.

In Person Learning. Arranged Arranged

**ECON 301-008**

L8

Intermediate Microeconomic Analysis I

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 304, ECON 305. Prerequisite: One of ECON 100, ECON 101 and one of MATH 100, MATH 104, MATH 110, MATH 120, MATH 180 and one of MATH 101, MATH 103, MATH 105, MATH 121.

In Person Learning. Thu 3:30 p.m. - 5:00 p.m.

**ECON 302-001**

W1

Intermediate Macroeconomic Analysis I

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 304, ECON 305. Prerequisite: One of ECON 100, ECON 101 and one of MATH 100, 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 302-002**

W2

Intermediate Macroeconomic Analysis I

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 304, ECON 305. Prerequisite: One of ECON 100, ECON 101 and one of MATH 100, 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. - 2:30 p.m.

**ECON 302-003**

W3

Intermediate Macroeconomic Analysis I

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 304, ECON 305. Prerequisite: One of ECON 100, ECON 101 and one of MATH 100, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184 and one of MATH 101, MATH 103, MATH 105, MATH 121.

In Person Learning. Fri 5:00 p.m. - 7:00 p.m.

**ECON 302-004**

W4

Intermediate Macroeconomic Analysis I

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 304, ECON 305. Prerequisite: One of ECON 100, ECON 101 and one of MATH 100, 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. - 8:00 p.m.

**ECON 302-005**

W5

Intermediate Macroeconomic Analysis I

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 302, ECON 304, ECON 305. Prerequisite: One of ECON 100, ECON 101 and one of MATH 100, 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. - 8:00 p.m.
Intermediate Microeconomics II

ECON 310-001

W1

304

Honours Intermediate Microeconomics II

Prerequisite: Third-year, fourth-year, or graduate standing. Credit will be granted for only one of ECON 310 or ECON 101.

The scope of this course is approximately the same as that of ECON 101. The course is intended for upper-level students only. Credit will be granted for only one of ECON 310, ECON 306, ECON 110, MATH 100, MATH 102, MATH 106 and a score of 60% or higher in one of MATH 100, MATH 102, MATH 106, MATH 110, MATH 120, MATH 180, MATH 184.

Consumer behaviour, uncertainty, producer theory, monopoly, oligopoly, and equilibrium analysis. Credit will be granted for only one of ECON 310, ECON 306, ECON 110, MATH 110, MATH 120, MATH 180, MATH 184.

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 310, ECON 306, or ECON 295.

A score of 60% or higher in one of ECON 100, ECON 315, ECON 101, or ECON 280. Prerequisite: A score of 60% or higher in one of ECON 100, ECON 315 and a score of 60% or higher in one of MATH 100, MATH 102, MATH 106, MATH 110, MATH 120, MATH 180, MATH 184.

In Person Learning

Mon

9:30 a.m. - 11:00 a.m.

Intermediate Microeconomics II

W2

ECON 304-001

306

Honours Intermediate Microeconomics II

Prerequisite: A score of 60% or higher in ECON 204. Permission of the School is also acceptable.

In Person Learning

Mon

9:30 a.m. - 11:00 a.m.

Intermediate Microeconomics II

W2

ECON 304-01

306

Honours Intermediate Microeconomics II

Prerequisite: A score of 60% or higher in ECON 204. Permission of the School is also acceptable.

In Person Learning

Fri

4:00 p.m. - 5:00 p.m.

Intermediate Microeconomics II

W2

ECON 307-01

307

Honours Intermediate Microeconomics II

Theories of economic growth and the business cycle. Intended primarily for prospective honours and other qualified students. Prerequisite: A score of 60% or higher in ECON 101. Or permission of the School.

In Person Learning

Mon

11:00 a.m. - 12:00 p.m.

Intermediate Microeconomics II

W2

ECON 309-01

309

Intermediate Open Economy Macroeconomics

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/No Credit grading. Prerequisite: One of ECON 101, ECON 301, and one of ECON 315, ECON 317, ECON 320, ECON 350, MATH 110, MATH 120, MATH 180, MATH 184, one of MATH 101, MATH 103, MATH 105, MATH 107.

In Person Learning

Mon

4:00 p.m. - 5:00 p.m.

Intermediate Microeconomics II

W2

ECON 309-02

309

Intermediate Open Economy Macroeconomics

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/No Credit grading. Prerequisite: One of ECON 101, ECON 301, and one of ECON 315, ECON 317, ECON 320, ECON 350, MATH 110, MATH 120, MATH 180, MATH 184, one of MATH 101, MATH 103, MATH 105, MATH 107.

In Person Learning

Thu

5:00 p.m. - 6:00 p.m.
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 311. Pre-requisite: Third year, fourth-year, or graduate standing.

Intermediate Microeconomics I

The scope of this course is approximately the same as that of ECON102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 312. Pre-requisite: Third year, fourth-year, or graduate standing.

Intermediate Microeconomics II

The scope of this course is approximately the same as that of ECON102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 312. Pre-requisite: Third year, fourth-year, or graduate standing.
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<th>Description</th>
<th>Credits</th>
<th>Days</th>
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<th>Location</th>
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<tr>
<td>ECON 325</td>
<td>Introduction to Econometrics I</td>
<td>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 101, STAT 200, STAT 201, STAT 211. 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.</td>
<td>3</td>
<td>Tue</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<td>ECON 325</td>
<td>Introduction to Econometrics I</td>
<td>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 101, STAT 200, STAT 201, STAT 211. 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.</td>
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<td>10:00 a.m. - 11:30 a.m.</td>
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<td>ECON 325</td>
<td>Introduction to Econometrics I</td>
<td>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 101, STAT 200, STAT 201, STAT 211. 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.</td>
<td>3</td>
<td>Thu</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>L03</td>
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<tr>
<td>ECON 325</td>
<td>Introduction to Econometrics I</td>
<td>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 101, STAT 200, STAT 201, STAT 211. 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.</td>
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<td>Thu</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<td>ECON 325</td>
<td>Introduction to Econometrics I</td>
<td>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 101, STAT 200, STAT 201, STAT 211. 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.</td>
<td>3</td>
<td>Thu</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>L05</td>
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<tr>
<td>ECON 325</td>
<td>Introduction to Econometrics I</td>
<td>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 101, STAT 200, STAT 201, STAT 211. 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.</td>
<td>3</td>
<td>Thu</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>L06</td>
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ECON 325-L01: Introduction to Econometrics I

ECON 325-L02: Introduction to Econometrics I

ECON 325-L03: Introduction to Econometrics I

ECON 325-L04: Introduction to Econometrics I

ECON 325-L05: Introduction to Econometrics I

ECON 325-L06: Introduction to Econometrics I
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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Tue Thu
10:15 a.m. - 12:30 p.m.

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; 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.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Tue Thu
12:00 p.m. - 12:30 p.m.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Wed
6:00 p.m. - 7:30 p.m.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Thu
5:00 p.m. - 6:30 p.m.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Tue
5:00 p.m. - 6:30 p.m.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Thu
4:00 p.m. - 5:30 p.m.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Tue
4:00 p.m. - 5:30 p.m.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Thu
5:00 p.m. - 6:30 p.m.

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; ECON 325, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.

In Person Learning: Mon Wed
10:00 a.m. - 11:30 a.m.
ECON V 388.001 ECON 308 001 Introduction to Causal Methods W2 Theory and practice of the analytical application of economics. Casualty, empirical analysis, and the application of theoretical models through experimentation in applied work. Prerequisite: Either (a) one of ECON 101, ECON 301 and one of ECON 310, ECON 311 and one of STAT 200, STAT 201, STAT 251, COMM 295, INST 221; or (b) one of ECON 201, ECON 303, ECON 306, ECON 307, ECON 326, ECON 327. In Person Learning Thu Tue 2:00 p.m. - 3:30 p.m.

ECON V 388.001 ECON 308 001 Introduction to Causal Methods W2 Theory and practice of the analytical application of economics. Casualty, empirical analysis, and the application of theoretical models through experimentation in applied work. Prerequisite: Either (a) one of ECON 101, ECON 301 and one of ECON 310, ECON 311 and one of STAT 200, STAT 201, STAT 251, COMM 295, INST 221; or (b) one of ECON 201, ECON 303, ECON 306, ECON 307, ECON 326, ECON 327. In Person Learning Thu Tue 2:00 p.m. - 3:30 p.m.

ECON V 388.001 ECON 308 001 Introduction to Causal Methods W2 Theory and practice of the analytical application of economics. Casualty, empirical analysis, and the application of theoretical models through experimentation in applied work. Prerequisite: Either (a) one of ECON 101, ECON 301 and one of ECON 310, ECON 311 and one of STAT 200, STAT 201, STAT 251, COMM 295, INST 221; or (b) one of ECON 201, ECON 303, ECON 306, ECON 307, ECON 326, ECON 327. In Person Learning Thu Tue 2:00 p.m. - 3:30 p.m.

ECON V 425.001 ECON 425 001 Advanced Econometrics W1 Principles of rational behavior in competitive situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Thu Tue 2:30 p.m. - 4:00 p.m.

ECON V 425.001 ECON 425 001 Advanced Econometrics W2 Principles of rational behavior in competitive situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Thu Tue 2:30 p.m. - 4:00 p.m.

ECON V 425.001 ECON 425 001 Advanced Econometrics W2 The study and analysis of advanced econometric models. Topics may include statistical inference on various models with stochasticity 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 324, ECON 328, STAT 206, UPS 202. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

ECON V 461.001 ECON 461 001 The Process of Economic Development W2 Internationalization of an agrarian economy: how the West grew rich; history of capitalism development; technical progress and growth; revolution of the patterns of income distribution; role of international trade in development; environment and development. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.

ECON V 461.001 ECON 461 001 The Process of Economic Development W2 Internationalization of an agrarian economy: how the West grew rich; history of capitalism development; technical progress and growth; revolution of the patterns of income distribution; role of international trade in development; environment and development. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.

ECON V 462.001 ECON 462 001 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, labor and credit markets, the trickle down process. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Mon Wed 10:10 a.m. - 12:30 p.m.

ECON V 462.001 ECON 462 001 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, labor and credit markets, the trickle down process. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Mon Wed 10:10 a.m. - 12:30 p.m.

ECON V 466.001 ECON 466 001 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 466, COMM 377, or COMM 377. Prerequisite: One of ECON 301, ECON 306, ECON 307. In Person Learning Thu Tue 10:00 a.m. - 12:30 p.m.

ECON V 467.001 ECON 467 001 Seminar in International Economic Relations W1 Selected topics focusing upon issues arising in international economic relations. Open only to fourth year students in the Major program in International Relations. Prerequisite: One of ECON 301, ECON 306 and one of ECON 302, ECON 311. In Person Learning Thu Tue 12:30 p.m. - 2:30 p.m.

ECON V 488.001 ECON 488 001 Computational Methods in Macroeconomics W2 Principles of rational behavior in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

ECON V 498.001 ECON 498 001 Introduction to Game Theory and Applications W1 Principles of rational behavior in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.

ECON V 498.001 ECON 498 001 Introduction to Game Theory and Applications W1 Principles of rational behavior in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.

ECON V 498.001 ECON 498 001 Introduction to Game Theory and Applications W1 Principles of rational behavior in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law. Prerequisite: One of ECON 301, ECON 306, ECON 310, COMM 295. In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.
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<td>ECON 460-001</td>
<td>Economics of Labour Markets</td>
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<td>ECON 465-001</td>
<td>Market Structure</td>
<td>465</td>
<td>001</td>
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<td>5:00 p.m. - 6:30 p.m.</td>
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<td>Market Structure</td>
<td>465</td>
<td>DNU_001</td>
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<td>ECON 467-001</td>
<td>Economics of Crime and Policing</td>
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<td>001</td>
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<td>ECON 467-L01</td>
<td>Political Economy</td>
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<td>ECON 467-003</td>
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<td>467</td>
<td>003</td>
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<td>ECON 469-001</td>
<td>Seminar in Applied Economics</td>
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<td>ECON 469-002</td>
<td>Seminar in Applied Economics</td>
<td>469</td>
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<td>ECON 469-003</td>
<td>Seminar in Applied Economics</td>
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<td>003</td>
<td>In Person Learning</td>
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<td>ECON 469-004</td>
<td>Seminar in Applied Economics</td>
<td>469</td>
<td>004</td>
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<td>ECON 469-005</td>
<td>Seminar in Applied Economics</td>
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<td>ECON 469-006</td>
<td>Seminar in Applied Economics</td>
<td>469</td>
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<td>ECON 493 F_001</td>
<td>Directed Reading</td>
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<td>6:30 p.m. - 7:30 p.m.</td>
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<td>ECON 493-001</td>
<td>Advanced Empirical Methods for International Economics</td>
<td>493</td>
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<td>In Person Learning</td>
<td>Mon</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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</table>

The theory of labour supply and demand for individuals, households, and firms. Policy implications for Canadian taxation and transfer programs. Employer selection, hiring, and promotion. Credit may not be obtained for both ECON 430 and 460. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMMS 205 and one of ECON 392, ECON 393, ECON 398

Market structure and social welfare. Theory of price discrimination: equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models. Theory of hierarchies: organization in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMMS 205.

Market structure and social welfare. Theory of price discrimination: equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models. Theory of hierarchies: organization in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMMS 205.

Market structure and social welfare. Theory of price discrimination: equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models. Theory of hierarchies: organization in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMMS 205.

The application of methods and theory to topics related to the criminal justice system with a specific focus on the role of policy, crime rate, punishment and systemic inequality. Prerequisite: One of ECON 391, ECON 394, ECON 395 or and one of ECON 424, ECON 428, STAT 306, LFS 252.

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, COMMS 205.

The application of methods and theory to topics related to the criminal justice system with a specific focus on the role of policy, crime rate, punishment and systemic inequality. Prerequisite: One of ECON 391, ECON 394, ECON 395 or and one of ECON 424, ECON 428, STAT 306, LFS 252.

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 301, ECON 304, ECON 315, COMMS 205 and one of ECON 424, ECON 428, STAT 306, LFS 252.

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 301, ECON 304, ECON 315, COMMS 205 and one of ECON 424, ECON 428, STAT 306, LFS 252.

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 301, ECON 304, ECON 315, COMMS 205 and one of ECON 424, ECON 428, STAT 306, LFS 252.

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 301, ECON 304, ECON 315, COMMS 205 and one of ECON 424, ECON 428, STAT 306, LFS 252.

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 301, ECON 304, ECON 315, COMMS 205 and one of ECON 424, ECON 428, STAT 306, LFS 252.

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 301, ECON 304, ECON 315, COMMS 205 and one of ECON 424, ECON 428, STAT 306, LFS 252.

Econometric methodologies necessary to conduct applied research, including time series analysis and panel data methods; review of empirical work in international economics. Restrictions: open to students in the Bachelor of International Economics Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 328.
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<td>ECON V 494-001</td>
<td>Seminar in Applied International Economics</td>
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<td>Seminar in Applied International Economics</td>
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<td>ECON V 494-003</td>
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<td>ECON V 494-004</td>
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<td>4</td>
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<td>ECON V 495-001</td>
<td>Seminar in International Economics</td>
<td>5</td>
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<td>ECON V 498-001</td>
<td>Seminar in Economics</td>
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<td>ECON V 500-001</td>
<td>Seminar in Macroeconomics</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<td>ECON V 502-001</td>
<td>Seminar in Microeconomics</td>
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<td>ECON V 503-001</td>
<td>Seminar in Macroeconomics</td>
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<tr>
<td>ECON V 514-001</td>
<td>Seminar in Computational Microeconomics</td>
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<tr>
<td>ECON V 516-001</td>
<td>Seminar in Special Topics in Microeconomics</td>
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<tr>
<td>ECON V 523-001</td>
<td>Seminar in Behavioural Economics</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>ECON V 524-001</td>
<td>Seminar in Quantitative Economics with Data Science Applications</td>
<td>4</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<td>ECON V 527-001</td>
<td>Seminar in Ecological Methods of Economic Research</td>
<td>4</td>
<td>W1</td>
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<td>ECON V 527-002</td>
<td>Seminar in Ecological Methods of Economic Research</td>
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<td>ECON V 531-001</td>
<td>Seminar in Economic History</td>
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<td>ECON V 541-001</td>
<td>Seminar in Economic Development</td>
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<td>ECON V 543-001</td>
<td>Seminar in Economic Development</td>
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<td>ECON V 549-001</td>
<td>Seminar in Political Economy</td>
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<td>ECON V 549-002</td>
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<td>ECON V 550-001</td>
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<td>Economics of Labour I</td>
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<td>ECON V 561-001</td>
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<td>Economics of Labour II</td>
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<td>ECON V 562-001</td>
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<td>W1</td>
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<td>ECON V 601-001</td>
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<td>ECON_V</td>
<td>601</td>
<td>L1A</td>
<td>Microeconomics II</td>
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<td>ECON V 603-001</td>
<td>ECON_V</td>
<td>603</td>
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<td>W1</td>
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<td>ECON V 603-L1A</td>
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<td>ECON V 622-001</td>
<td>ECON_V</td>
<td>622</td>
<td>001</td>
<td>Computational Economics with Data Science Applications</td>
<td>W1</td>
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<td>ECON V 626-001</td>
<td>ECON_V</td>
<td>626</td>
<td>001</td>
<td>Econometric Theory I</td>
<td>W1</td>
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<td>ECON V 626-L1A</td>
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<td>L1A</td>
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<td>ECON_V 627-001</td>
<td>Econometrics Theory II</td>
<td>W2</td>
<td>1.00</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>ECON_V 627-LIA</td>
<td>Econometrics Theory II</td>
<td>W2</td>
<td>1.00</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>ECON_V 628_A-003</td>
<td>Topics in Applied Econometrics I</td>
<td>W1-2</td>
<td>1.00</td>
<td>Mon</td>
<td>9:00 a.m. - 11:30 a.m.</td>
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<td>ECON_V 640-001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>0.50</td>
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<tr>
<td>ECON_V 649-001</td>
<td>PhD Research Seminar</td>
<td>W1-2</td>
<td>1.00</td>
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<td>ECON_V 649-002</td>
<td>Directed Study in Educational &amp; Counselling Psychology, and Special Education</td>
<td>W1</td>
<td>0.50</td>
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<tr>
<td>ECPS_V 490-A-001</td>
<td>Directed Study in Educational &amp; Counselling Psychology, and Special Education</td>
<td>W1</td>
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<td>W2</td>
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<td>W1-2</td>
<td>1.00</td>
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<td>EDCF_V 210-301</td>
<td>Introduction to Music Education</td>
<td>W1</td>
<td>1.00</td>
<td>Fri</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<td>EDCF_V 301-001</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>0.50</td>
<td>Mon Wed</td>
<td>8:00 a.m. - 10:30 a.m.</td>
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<td>EDCF_V 301-002</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>W1</td>
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<td>Mon Wed</td>
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<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>0.50</td>
<td>Mon Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>EDCF_V 301-004</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>0.50</td>
<td>Mon Wed</td>
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<td>EDCF_V 301-005</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>0.50</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<td>EDCF_V 301-007</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
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<td>0.50</td>
<td>Mon Wed</td>
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<td>EDCF_V 301-008</td>
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<td>W2</td>
<td>0.50</td>
<td>Mon Wed</td>
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<td>EDCF_V 301-009</td>
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<td>Mon Wed</td>
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<td>EDCF_V 301-110</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>0.50</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 1:00 p.m.</td>
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<tr>
<td>EDCF_V 301-640</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>0.50</td>
<td>Mon Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>EDCF_V 302-A-001</td>
<td>Art - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>0.50</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 12:00 p.m.</td>
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<td>EDCF_V 302-A-640</td>
<td>Art - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>0.50</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 12:00 p.m.</td>
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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: 4 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: 4 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: 4 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: 4 credits of introductory art studio or art history courses. In Person Learning  Wed  4:30 p.m. - 8:30 p.m.
EDCP_V 320-301  EDCP_V 320  301  Digital Media in Arts Education: Introduction  W1  This course is not eligible for Credit/D/Fail grading. In Person Learning  Tue  8:30 p.m. - 7:30 p.m.
EDCP_V 330-301  EDCP_V 330  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 330-101  EDCP_V 330  101  Music - 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. - 3:30 p.m.
EDCP_V 330-102  EDCP_V 330  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 330-103  EDCP_V 330  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. - 6:30 p.m.
EDCP_V 330-104  EDCP_V 330  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. - 10:30 a.m.
EDCP_V 330-105  EDCP_V 330  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 330-106  EDCP_V 330  106  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 330-107  EDCP_V 330  107  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 330-109  EDCP_V 330  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. - 3:30 p.m.
EDCP_V 330-110  EDCP_V 330  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 330-140  EDCP_V 330  140  Music - Elementary: Curriculum and Pedagogy  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading. A minimum grade of 70% is 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  Arranged  Arranged
EDCP_V 332-001  EDCP_V 332  001  Music - Secondary: Curriculum and Pedagogy  W1  Pass/Fail. 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  Mon Wed  1:00 p.m. - 2:30 p.m.
EDCP_V 332-002  EDCP_V 332  002  Instrumental Pedagogy: Secondary  W1  Pass/Fail. 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  Mon Wed Fri  8:00 a.m. - 10:30 a.m.
EDCP_V 332-003  EDCP_V 332  003  Choral Pedagogy: Secondary  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning  Fri  1:00 p.m. - 3:30 p.m.
EDCP_V 333-101  EDCP_V 333  101  Physical Education - Elementary: Curriculum and Pedagogy  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-2]  In Person Learning  Fri  10:00 a.m. - 12:30 p.m.
EDCP_V 333-102  EDCP_V 333  102  Physical Education - Elementary: Curriculum and Pedagogy  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-2]  In Person Learning  Tue  10:30 a.m. - 12:30 p.m.
EDCP_V 333-103  EDCP_V 333  103  Physical Education - Elementary: Curriculum and Pedagogy  W2  Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-2]  In Person Learning  Mon  10:00 a.m. - 12:00 p.m.
EDCP_V 333-104  EDCP_V 333  104  Physical Education - Elementary: Curriculum and Pedagogy  W2  Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-2]  In Person Learning  Fri  1:00 p.m. - 3:30 p.m.
EDCP_V 331-105 320 105 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. - 8:30 p.m.

EDCP_V 331-107 320 107 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 331-108 320 108 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 331-109 320 109 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 331-110 320 110 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. - 1:00 p.m.

EDCP_V 331-640 320 640 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 332-A_301 322 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 332-A_640 322 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 333-301 323 301 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 336-301 326 301 Health Education: Curriculum and Pedagogy W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 10:30 a.m. - 1:00 p.m.

EDCP_V 331-101 331 101 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 331-102 331 102 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 331-103 331 103 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 331-104 331 104 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 331-105 331 105 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 331-107 331 107 Social Studies - Elementary: Curriculum and Pedagogy W2 Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 10:30 a.m. - 12:30 p.m.

EDCP_V 331-108 331 108 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 331-109 331 109 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 331-110 331 110 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. - 12:00 p.m.

EDCP_V 331-640 331 640 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 331-641 331 641 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 331-650 331 650 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_301 332 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_302 332 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.
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<th>Title</th>
<th>Location</th>
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<th>Notes</th>
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<tr>
<td>340</td>
<td>Wed</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>Mathematics - Secondary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Mon-Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>349</td>
<td>Fri</td>
<td>102</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Mon-Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>107</td>
<td>Wed</td>
<td>1:00 p.m. - 3:30 p.m.</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>108</td>
<td>Wed</td>
<td>4:30 p.m. - 6:30 p.m.</td>
<td>Mathematics - Secondary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>109</td>
<td>Wed</td>
<td>1:00 p.m. - 3:30 p.m.</td>
<td>Social Studies - Secondary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>110</td>
<td>Wed</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>Social Studies - Secondary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>342</td>
<td>Wed</td>
<td>1:00 p.m. - 3:30 p.m.</td>
<td>Contemporary Issues in Social Studies: Secondary</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>343</td>
<td>Wed</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>Contemporary Issues in Social Studies: Secondary</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>344</td>
<td>Wed</td>
<td>1:00 p.m. - 3:30 p.m.</td>
<td>Contemporary Issues in Social Studies: Secondary</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>345</td>
<td>Wed</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>Contemporary Issues in Social Studies: Secondary</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>346</td>
<td>Wed</td>
<td>1:00 p.m. - 3:30 p.m.</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>347</td>
<td>Wed</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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*Note: All courses are Pass/Fail. This course is not eligible for Credit/D/Fail grading.*
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<th>Instructor</th>
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<tr>
<td>EDCP_V 349-310</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
<td>110</td>
<td>W2</td>
<td>4:30 p.m. - 7:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue 8:00 a.m. - 10:30 a.m. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>EDCP_V 349-440</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
<td>460</td>
<td>W1</td>
<td>4:30 p.m. - 7:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue 8:00 a.m. - 10:30 a.m. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>EDCP_V 352-A_301</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
<td>A, A_301</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>EDCP_V 352-A_302</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>General Science - Secondary: Curriculum and Pedagogy</td>
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<tr>
<td>EDCP_V 352-A_303</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>EDCP_V 352-A_440</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 354-A_301</td>
<td>Biological Sciences - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 354-A_302</td>
<td>Biological Sciences - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>EDCP_V 355-A_440</td>
<td>Biological Sciences - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>Biological Sciences - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 355-A_301</td>
<td>Chemistry - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>Chemistry - Secondary: Curriculum and Pedagogy</td>
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<tr>
<td>EDCP_V 355-A_440</td>
<td>Chemistry - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>Chemistry - Secondary: Curriculum and Pedagogy</td>
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<tr>
<td>EDCP_V 356-A_301</td>
<td>Earth and Space Science - Secondary: Curriculum and Pedagogy</td>
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<td>Earth and Space Science - Secondary: Curriculum and Pedagogy</td>
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<tr>
<td>EDCP_V 356-A_440</td>
<td>Earth and Space Science - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>EDCP_V 357-A_301</td>
<td>Physics - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>Physics - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 362-B_301</td>
<td>Curriculum Design and Evaluation: Practical and Theoretical Issues</td>
<td>B</td>
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<td>EDCP_V 362-D_377</td>
<td>Curriculum Design and Evaluation: Practical and Theoretical Issues</td>
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<td>EDCP_V 362-D_624</td>
<td>Curriculum Design and Evaluation: Practical and Theoretical Issues</td>
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<td>EDCP_V 362-D_625</td>
<td>Curriculum Design and Evaluation: Practical and Theoretical Issues</td>
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<td>EDCP_V 371-301</td>
<td>Integrating Design and Technology Across the Curriculums: Elementary and Middle Years</td>
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<td>EDCP_V 373-A_301</td>
<td>Information and Communication Technologies I - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 374-A_301</td>
<td>Design and Technology I - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 375-A_301</td>
<td>Readiness Education I - Secondary: Curriculum and Pedagogy</td>
<td>A</td>
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<td>EDCP_V 375-A_440</td>
<td>Readiness Education I - Secondary: Curriculum and Pedagogy</td>
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<td>A_440</td>
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<tr>
<td>EDCP_V 470-301</td>
<td>3</td>
<td>Business Education II - Secondary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>1:00 p.m. - 2:30 p.m.</td>
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<tr>
<td>EDCP_V 461-301</td>
<td>3</td>
<td>Home Economics I - Secondary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V 461-640</td>
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<td>Home Economics I - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 461-641</td>
<td>3</td>
<td>Home Economics I - Secondary: Curriculum and Pedagogy</td>
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<tr>
<td>EDCP_V 463-301</td>
<td>4</td>
<td>Visual Arts for Classroom Practice: Three-Dimensional Practices and Processes</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>EDCP_V 463-301</td>
<td>4</td>
<td>Visual Arts for Classroom Practice: Textile Design</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>EDCP_V 464-302</td>
<td>3</td>
<td>Art, Education and Cultural Diversity</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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</tr>
<tr>
<td>EDCP_V 464-302</td>
<td>3</td>
<td>Art Education Theory and Research</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V 464-301</td>
<td>3</td>
<td>Music and Movement - Elementary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
<td></td>
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<tr>
<td>EDCP_V 462-301</td>
<td>3</td>
<td>Conducting and Rehearsal Techniques for Teachers</td>
<td>In Person Learning</td>
<td>Mon-Tue Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EDCP_V 462-301</td>
<td>3</td>
<td>Special Study in Social Studies: Geography</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V 462-302</td>
<td>3</td>
<td>Special Study in Social Studies: Geography</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V 464-301</td>
<td>3</td>
<td>Assessment in Mathematics Education</td>
<td>In Person Learning</td>
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<tr>
<td>EDCP_V 464-301</td>
<td>3</td>
<td>Mathematics History for Teachers</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>2:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>EDCP_V 467-4_001</td>
<td>3</td>
<td>Special Topics in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>EDCP_V 467-8_002</td>
<td>3</td>
<td>Special Topics in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>EDCP_V 467-1_301</td>
<td>3</td>
<td>Special Topics in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>EDCP_V 467-1_302</td>
<td>3</td>
<td>Special Topics in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>1:00 p.m. - 2:30 p.m.</td>
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<tr>
<td>EDCP_V 468-4_001</td>
<td>3</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
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<td>EDCP_V 468-4_002</td>
<td>3</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
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<td>EDCP_V 468-4_001</td>
<td>3</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
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<td>EDCP_V 468-4_001</td>
<td>3</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
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<tr>
<td>EDCP_V 471-A_301</td>
<td>3</td>
<td>Technological Practices in Education: Technical Problems</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>EDCP_V 472-301</td>
<td>3</td>
<td>Business Practices in Education</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>Code</td>
<td>Year</td>
<td>Title</td>
<td>Type</td>
<td>Grading</td>
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<tr>
<td>EDCP_V</td>
<td>478</td>
<td>Digital Media in Education: Design and Pedagogy</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V</td>
<td>481</td>
<td>Home Economics II - Secondary: Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Wed</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>EDCP_V</td>
<td>491</td>
<td>Home Economics II - Secondary: Curriculum and Pedagogy</td>
<td>Online Learning</td>
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<td>EDCP_V</td>
<td>492</td>
<td>Special Study in Home Economics: Textile Studies</td>
<td>Online Learning</td>
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<tr>
<td>EDCP_V</td>
<td>493</td>
<td>Curriculum Inquiry in Home Economics Education</td>
<td>Online Learning</td>
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<tr>
<td>EDCP_V</td>
<td>494</td>
<td>Curriculum Inquiry in Home Economics Education</td>
<td>Online Learning</td>
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<tr>
<td>EDCP_V</td>
<td>501</td>
<td>Master’s Seminar</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>W2</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V</td>
<td>508</td>
<td>Review of Research in Curriculum and Pedagogy</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>EDCP_V</td>
<td>509</td>
<td>Review of Research in Curriculum and Pedagogy</td>
<td>Online Learning</td>
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<tr>
<td>EDCP_V</td>
<td>510</td>
<td>Video Ethnography in Education Research: Culture, Technology, and Interpretation</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>W2</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V</td>
<td>512</td>
<td>Education Action Research</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V</td>
<td>513</td>
<td>Case-Study Research and Cross-Case Analysis</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>EDCP_V</td>
<td>514</td>
<td>Arts-Based Educational Research: Art/History</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V</td>
<td>520</td>
<td>Perspectives, Practice, and Curriculum Issues in Contemporary Art Education</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V</td>
<td>521</td>
<td>Historical and Social Foundations of Art Education</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
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<tr>
<td>EDCP_V</td>
<td>526</td>
<td>Theory and Principles of Music Education</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V</td>
<td>530</td>
<td>Research in School Health Education</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP_V</td>
<td>537</td>
<td>Foundations of Home Economics Education</td>
<td>Online Learning</td>
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<tr>
<td>EDCP_V</td>
<td>541</td>
<td>Problems in Historical Understanding</td>
<td>Online Learning</td>
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<tr>
<td>EDCP_V</td>
<td>542</td>
<td>Theorizing Pedagogy</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>EDCP_V</td>
<td>542</td>
<td>Theorizing Pedagogy</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>EDCP_V</td>
<td>544</td>
<td>Mathematics and Science Teaching and Learning with Technologies</td>
<td>In Person Learning</td>
<td>Pass/Fail</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>EDCP_V</td>
<td>544</td>
<td>Mathematics and Science Teaching and Learning with Technologies</td>
<td>Online Learning</td>
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<td>Days</td>
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<td>EDCP 546</td>
<td>0.31</td>
<td>Indigenous Visual Expression as Pedagogy</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP 550</td>
<td>0.31</td>
<td>Mathematics Education: Origins and Issues</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP 554</td>
<td>0.31</td>
<td>Mathematics Education: Origins and Issues</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EDCP 555</td>
<td>0.31</td>
<td>Mathematics Education: Current Issues</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>EDCP 557</td>
<td>0.31</td>
<td>Mathematics Education: Beyond the Early Years</td>
<td>In Person Learning</td>
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<tr>
<td>EDCP 558</td>
<td>0.31</td>
<td>Critical Analysis of Curriculum in Science Education</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>EDCP 559</td>
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<td>Theory and Research in the Social Context of School Science</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>Science Learning in Informal Environments</td>
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<td>EDCP 562</td>
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<td>EDCP 563</td>
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<td>EDCP 564</td>
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Note: This course is not eligible for Credit/D/Fail grading.
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This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
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<td>EDST_V 401-014</td>
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<td>EDST_V 401-018</td>
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<td>EDST_V 401-640</td>
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<td>EDST_V 403-001</td>
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<td>EDST_V 403-002</td>
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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_106  EDUC_V 418  D  D_106  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_110  EDUC_V 418  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 321. 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_401  EDUC_V 421  D  D_401  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-D_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. - 6:30 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. - 6:30 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. - 6:30 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. - 12:30 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  12:30 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 a.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  12:30 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 a.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  12:30 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. - 12:30 p.m.  
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**Indigenous Education in Canada**

- Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- 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.
- Registration is arranged.

**Supervised Research Investigation**

- Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- 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.
- Registration is arranged.

**Inquiry Seminar I**

- Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- Registration is arranged.
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The credit value for this course will be determined in consultation with the student prior to the registration.
Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of recent elementary teaching methods courses in the subjects to be taught.
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<td>EDUC_V 500-618</td>
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**Overview of Methodological Approaches to Research in Education**

This course is not eligible for Credit/D/Fail grading. Prerequisite: Recent completion of secondary teaching methods courses in the subjects to be taught. The credit value for this course will be determined in consultation with the student prior to the registration.

**Research Methodology in Education**

Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading. In Person Learning: Mon.

**Online Learning**

Online Learning: Arranged.
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<td>EECE_V 571-T_207</td>
<td>W2</td>
<td>Electrical Engineering Seminar and Special Problems</td>
<td>Mon 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EECE_V 571-Z_203</td>
<td>W2</td>
<td>Electrical Engineering Seminar and Special Problems</td>
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<tr>
<td>EECE_V 571-Z_204</td>
<td>W2</td>
<td>Electrical Engineering Seminar and Special Problems</td>
<td>Arranged</td>
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<tr>
<td>EECE_V 571-Z_208</td>
<td>W2</td>
<td>Electrical Engineering Seminar and Special Problems</td>
<td>Tue Thu 5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>EECE_V 589-201</td>
<td>W2</td>
<td>Introduction to Robotics</td>
<td>Mon Wed Fri 12:00 p.m. - 1:00 p.m.</td>
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<td>EECE_V 589-T2A</td>
<td>W2</td>
<td>Introduction to Robotics</td>
<td>Mon 4:00 p.m. - 5:00 p.m.</td>
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<td>EECE_V 587-001</td>
<td>W1</td>
<td>Directed Research</td>
<td>Arranged</td>
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<tr>
<td>EECE_V 587-001</td>
<td>W2</td>
<td>Directed Research</td>
<td>Arranged</td>
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<td>EECE_V 589-001</td>
<td>W1</td>
<td>Thesis</td>
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<td>EECE_V 589-101</td>
<td>W1</td>
<td>Thesis</td>
<td>Arranged</td>
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ELEC_V 203-L1B
203 L1B
Basic Circuit Analysis
12:30 p.m. - 2:00 p.m.
W2
In Person Learning
Tue
205
 Signals and Systems
Electronics Laboratory
T2A
Arranged

ELEC_V 203-L1C
203 L1C
Basic Circuit Analysis
1:00 p.m. - 3:00 p.m.
W2
In Person Learning
Tue
203
 In Person Learning
Mon (Alternate weeks)

ELEC_V 203-L1D
203 L1D
Basic Circuit Analysis
1:00 p.m. - 3:00 p.m.
W2
In Person Learning
Fri
205
 Signals and Systems
Electronics Laboratory
T2A
Arranged

ELEC_V 203-L1E
203 L1E
Basic Circuit Analysis
2:00 p.m. - 4:00 p.m.
W2
In Person Learning
Mon (Alternate weeks)

ELEC_V 203-T1A
203 T1A
Basic Circuit Analysis
9:00 a.m. - 11:00 a.m.
W2
In Person Learning
Fri
203
 In Person Learning
Mon Thu (Alternate weeks)

ELEC_V 203-101
203 101
Linear Circuits
12:00 p.m. - 2:00 p.m.
W1
In Person Learning
Mon
203
 In Person Learning
Wed (Alternate weeks)

ELEC_V 203-T1A
203 T1A
Linear Circuits
1:00 p.m. - 3:00 p.m.
W1
In Person Learning
Fri
203
 In Person Learning
Mon Thu (Alternate weeks)

ELEC_V 205-L1A
205 L1A
Electronics Laboratory
9:00 a.m. - 11:00 a.m.
W1
In Person Learning
Wed
205
 In Person Learning
Wed (Alternate weeks)

ELEC_V 205-L1B
205 L1B
Electronics Laboratory
12:00 p.m. - 2:00 p.m.
W1
In Person Learning
Mon
205
 In Person Learning
Wed (Alternate weeks)

ELEC_V 205-L1C
205 L1C
Electronics Laboratory
3:00 p.m. - 5:00 p.m.
W1
In Person Learning
Fri
205
 In Person Learning
Wed (Alternate weeks)

ELEC_V 205-L1D
205 L1D
Electronics Laboratory
3:00 p.m. - 5:00 p.m.
W1
In Person Learning
Mon
205
 In Person Learning
Wed (Alternate weeks)

ELEC_V 205-L1F
205 L1F
Electronics Laboratory
2:00 p.m. - 4:00 p.m.
W1
In Person Learning
Thu
205
 In Person Learning
Thu (Alternate weeks)

ELEC_V 210-201
210 201
Engineering Electromagnetics
9:00 a.m. - 11:00 a.m.
W2
In Person Learning
Thu
210
 In Person Learning
Thu (Alternate weeks)

ELEC_V 211-202
211 202
Engineering Electromagnetics
10:00 a.m. - 12:00 p.m.
W2
In Person Learning
Thu
211
 In Person Learning
Thu (Alternate weeks)

ELEC_V 211-12A
211 T1A
Engineering Electromagnetics
12:00 p.m. - 2:00 p.m.
W2
In Person Learning
Wed
211
 In Person Learning
Wed (Alternate weeks)

ELEC_V 220-101
220 101
Signals and Systems
10:00 a.m. - 12:00 p.m.
W1
In Person Learning
Thu
220
 In Person Learning
Thu (Alternate weeks)

ELEC_V 220-201
220 201
Signals and Systems
1:00 p.m. - 3:00 p.m.
W1
In Person Learning
Thu
220
 In Person Learning
Thu (Alternate weeks)

ELEC_V 221-101
221 101
Signals and Systems
2:00 p.m. - 4:00 p.m.
W1
In Person Learning
Thu
221
 In Person Learning
Thu (Alternate weeks)

ELEC_V 221-201
221 201
Signals and Systems
3:00 p.m. - 5:00 p.m.
W1
In Person Learning
Thu
221
 In Person Learning
Thu (Alternate weeks)

ELEC_V 221-21A
221 T1A
Signals and Systems
4:00 p.m. - 6:00 p.m.
W1
In Person Learning
Mon
221
 In Person Learning
Mon (Alternate weeks)

ELEC_V 221-22A
221 T2A
Signals and Systems
5:00 p.m. - 7:00 p.m.
W1
In Person Learning
Fri
221
 In Person Learning
Fri (Alternate weeks)

ELEC_V 270-201
270 201
Selected Topics in Biomedical Engineering
9:00 a.m. - 11:00 a.m.
W2
In Person Learning
Tue
270
 In Person Learning
Tue (Alternate weeks)

ELEC_V 281-201
281 201
Technical Communication
12:00 p.m. - 2:00 p.m.
W2
In Person Learning
Thu
281
 In Person Learning
Thu (Alternate weeks)
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 260, MATH 262, MATH 267 or (b) all of MATH 201, MATH 202, MATH 264, MATH 266, MATH 267 or (c) all of MATH 201, MATH 212, MATH 215, MATH 217, MATH 218.

In Person Learning

W1

Wednesday Fri

11:00 a.m. - 1:00 p.m.

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 260, MATH 262, MATH 267 or (b) all of MATH 201, MATH 202, MATH 264, MATH 266, MATH 267 or (c) all of MATH 201, MATH 212, MATH 215, MATH 217, MATH 218.

In Person Learning

W1

Tuesday Thu

11:00 a.m. - 1:00 p.m.

Fundamental aspects of electronic materials such as: semiconductor, metals, dielectrics, piezoelectrics, magnetic materials, and their applications in devices such as diodes, transistors, and transducers. Recommended Third-year standing in B & S.C. This course is not eligible for Credit/D/Fail grading. [4-0-0]

In Person Learning

W1

Wednesday Fri

Fundamental aspects of electronic materials such as: semiconductor, metals, dielectrics, piezoelectrics, magnetic materials, and their applications in devices such as diodes, transistors, and transducers. Recommended Third-year standing in B & S.C. This course is not eligible for Credit/D/Fail grading. [4-0-0]

In Person Learning

W1

Wednesday Fri

Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, relative 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 311.

In Person Learning

W1

Tuesday Thu

5:00 p.m. - 7:00 p.m.

Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, relative 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 311.

In Person Learning

W1

Wednesday Fri

5:00 p.m. - 7:00 p.m.

Continuous time system analysis by Laplace transforms; system modeling 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

W1

Wednesday Fri

3:00 p.m. - 5:00 p.m.

Continuous time system analysis by Laplace transforms; system modeling 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

W1

Wednesday Fri

10:00 a.m. - 12:00 p.m.

Three phase power; transformers and harmonics; magnetic materials and circuits; electromagnetic energy conversion; DC machines; rotating magnetic field, AC induction and synchronous machines; variable frequency operation, brushless DC machines, stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [4-3*-2*] Prerequisite: One of ELEC 211, CPEN 212, CPSC 261, CPEN 311.

In Person Learning

W1

Tuesday Thu

12:30 p.m. - 2:00 p.m.

Three phase power; transformers and harmonics; magnetic materials and circuits; electromagnetic energy conversion; DC machines; rotating magnetic field, AC induction and synchronous machines; variable frequency operation, brushless DC machines, stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [4-3*-2*] Prerequisite: One of ELEC 211, CPEN 212, CPSC 261, CPEN 311.

In Person Learning

W1

Tuesday Thu

11:00 a.m. - 1:00 p.m.

Three phase power; transformers and harmonics; magnetic materials and circuits; electromagnetic energy conversion; DC machines; rotating magnetic field, AC induction and synchronous machines; variable frequency operation, brushless DC machines, stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [4-3*-2*] Prerequisite: One of ELEC 211, CPEN 212, CPSC 261, CPEN 311.

In Person Learning

W1

Tuesday Thu

11:00 a.m. - 1:00 p.m.

Three phase power; transformers and harmonics; magnetic materials and circuits; electromagnetic energy conversion; DC machines; rotating magnetic field, AC induction and synchronous machines; variable frequency operation, brushless DC machines, stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [4-3*-2*] Prerequisite: One of ELEC 211, CPEN 212, CPSC 261, CPEN 311.

In Person Learning

W1

Tuesday Thu

2:30 p.m. - 4:30 p.m.

Three phase power; transformers and harmonics; magnetic materials and circuits; electromagnetic energy conversion; DC machines; rotating magnetic field, AC induction and synchronous machines; variable frequency operation, brushless DC machines, stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [4-3*-2*] Prerequisite: One of ELEC 211, CPEN 212, CPSC 261, CPEN 311.

In Person Learning

W1

Tuesday Thu

2:30 p.m. - 4:30 p.m.

Three phase power; transformers and harmonics; magnetic materials and circuits; electromagnetic energy conversion; DC machines; rotating magnetic field, AC induction and synchronous machines; variable frequency operation, brushless DC machines, stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [4-3*-2*] Prerequisite: One of ELEC 211, CPEN 212, CPSC 261, CPEN 311.

In Person Learning

W1

Tuesday Thu

2:30 p.m. - 4:30 p.m.

Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, relative 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 311.

In Person Learning

W1

Wednesday Fri

3:00 p.m. - 5:00 p.m.
ELEC 342-12A ELEC_V 342 L2A Electro-Mechanical Energy Conversion and Transmission W2 Three phase power; transformers and harmonics; magnetic materials and circuits; electromechanical energy conversion; DC machines; rotating magnetic field; AC induction and synchronous machines; variable frequency operation; brushless DC machines; stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [3-2*-2*] Prerequisite: All of MATH 170, ELEC 202.
In Person Learning: Wed [Alternate weeks] 11:00 a.m. - 2:00 p.m.

ELEC 342-12B ELEC_V 342 L2B Electro-Mechanical Energy Conversion and Transmission W2 Three phase power; transformers and harmonics; magnetic materials and circuits; electromechanical energy conversion; DC machines; rotating magnetic field; AC induction and synchronous machines; variable frequency operation; brushless DC machines; stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [3-2*-2*] Prerequisite: All of MATH 170, ELEC 202.
In Person Learning: Fri [Alternate weeks] 2:00 p.m. - 5:00 p.m.

ELEC 342-12C ELEC_V 342 L2C Electro-Mechanical Energy Conversion and Transmission W2 Three phase power; transformers and harmonics; magnetic materials and circuits; electromechanical energy conversion; DC machines; rotating magnetic field; AC induction and synchronous machines; variable frequency operation; brushless DC machines; stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [3-2*-2*] Prerequisite: All of MATH 170, ELEC 202.
In Person Learning: Thu [Alternate weeks] 1:00 p.m. - 4:00 p.m.

ELEC 342-12D ELEC_V 342 L2D Electro-Mechanical Energy Conversion and Transmission W2 Three phase power; transformers and harmonics; magnetic materials and circuits; electromechanical energy conversion; DC machines; rotating magnetic field; AC induction and synchronous machines; variable frequency operation; brushless DC machines; stepper and single-phase motors. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344. This course is not eligible for Credit/D/Fail grading. [3-2*-2*] Prerequisite: All of MATH 170, ELEC 202.
In Person Learning: Fri [Alternate weeks] 8:30 a.m. - 11:30 a.m.

ELEC 342-71A ELEC_V 342 L1A Electro-Mechanical Energy Conversion and Transmission W1 Characteristics of semiconductor devices; analog circuits; force and torque production; motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. This course is not eligible for Credit/D/Fail grading. [3-2*-2*] Prerequisite: One of ELEC 202, ELEC 302.
In Person Learning: Thu 5:30 p.m. - 7:30 p.m.

ELEC 342-72A ELEC_V 342 L2A Electro-Mechanical Energy Conversion and Transmission W2 Characteristics of semiconductor devices; analog circuits; force and torque production; motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. This course is not eligible for Credit/D/Fail grading. [3-2*-2*] Prerequisite: One of ELEC 202, ELEC 302.
In Person Learning: Fri 12:00 p.m. - 2:00 p.m.

ELEC 342-201 ELEC_V 342 201 Electromechanics W1 Electromechanical energy conversion; linear actuators; torque/speed of rotating devices; reluctance, stepper, permanent- magnet, induction, brushed-DC motors and DC motors; actuator/motor drive circuits/controllers. Credit will be granted for only one of ELEC 344, ELEC 345, ELEC 346. This course is not eligible for Credit/D/Fail grading. [3-2*-1*] Prerequisite: One of ELEC 302, ELEC 303.
In Person Learning: Thu 3:00 p.m. - 6:00 p.m.

ELEC 342-202 ELEC_V 342 202 Electromechanics W2 Electromechanical energy conversion; linear actuators; torque/speed of rotating devices; reluctance, stepper, permanent- magnet, induction, brushed-DC motors and DC motors; actuator/motor drive circuits/controllers. Credit will be granted for only one of ELEC 344, ELEC 345, ELEC 346. This course is not eligible for Credit/D/Fail grading. [3-2*-0*] Prerequisite: One of ELEC 302, ELEC 303.
In Person Learning: Tue Thu 12:00 p.m. - 2:00 p.m.

ELEC 342-203 ELEC_V 342 203 Electromechanics W2 Electromechanical energy conversion; linear actuators; torque/speed of rotating devices; reluctance, stepper, permanent- magnet, induction, brushed-DC motors and DC motors; actuator/motor drive circuits/controllers. Credit will be granted for only one of ELEC 344, ELEC 345, ELEC 346. This course is not eligible for Credit/D/Fail grading. [3-2*-0*] Prerequisite: One of ELEC 302, ELEC 303.
In Person Learning: Wed [Alternate weeks] 3:00 p.m. - 5:00 p.m.

ELEC 342-204 ELEC_V 342 204 Electromechanics W2 Electromechanical energy conversion; linear actuators; torque/speed of rotating devices; reluctance, stepper, permanent- magnet, induction, brushed-DC motors and DC motors; actuator/motor drive circuits/controllers. Credit will be granted for only one of ELEC 344, ELEC 345, ELEC 346. This course is not eligible for Credit/D/Fail grading. [3-2*-0*] Prerequisite: One of ELEC 302, ELEC 303.
In Person Learning: Thu [Alternate weeks] 11:00 a.m. - 1:00 p.m.

ELEC 344-101 ELEC_V 344 101 Applied Electronics and Electromechanics W1 Characteristics of semiconductor devices; analog circuits; force and torque production, motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. [3-2*-2*] Prerequisite: One of ELEC 203, ELEC 205, ELEC 206, MECH 221.
In Person Learning: Arranged

ELEC 344-201 ELEC_V 344 201 Applied Electronics and Electromechanics W2 Characteristics of semiconductor devices; analog circuits; force and torque production, motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. [3-2*-2*] Prerequisite: One of ELEC 203, ELEC 205, ELEC 206, MECH 221.
In Person Learning: Fri 12:00 p.m. - 2:00 p.m.

ELEC 346-11A ELEC_V 346 11A Applied Electronics and Electromechanics W1 Characteristics of semiconductor devices; analog circuits; force and torque production, motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. [3-2*-2*] Prerequisite: One of ELEC 203, ELEC 205, ELEC 206, MECH 221.
In Person Learning: Arranged

ELEC 346-11B ELEC_V 346 11B Applied Electronics and Electromechanics W1 Characteristics of semiconductor devices; analog circuits; force and torque production, motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. [3-2*-2*] Prerequisite: One of ELEC 203, ELEC 205, ELEC 206, MECH 221.
In Person Learning: Arranged

ELEC 346-11C ELEC_V 346 11C Applied Electronics and Electromechanics W1 Characteristics of semiconductor devices; analog circuits; force and torque production, motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. [3-2*-2*] Prerequisite: One of ELEC 203, ELEC 205, ELEC 206, MECH 221.
In Person Learning: Arranged

ELEC 346-11D ELEC_V 346 11D Applied Electronics and Electromechanics W1 Characteristics of semiconductor devices; analog circuits; force and torque production, motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. [3-2*-2*] Prerequisite: One of ELEC 203, ELEC 205, ELEC 206, MECH 221.
In Person Learning: Arranged

ELEC 346-11E ELEC_V 346 11E Applied Electronics and Electromechanics W1 Characteristics of semiconductor devices; analog circuits; force and torque production, motor principles and torque-speed characteristics; principles of power electronics. Not open to students in Electrical and Computer Engineering. Credit will be granted for only one of ELEC 342, ELEC 343, ELEC 344, ELEC 346. [3-2*-2*] Prerequisite: One of ELEC 203, ELEC 205, ELEC 206, MECH 221.
In Person Learning: Arranged
ELEC V 344-L2A  
Applied Electronics and Electromechanics  
W2  
In Person Learning  
Mon [alternate weeks]  
2:30 p.m. - 3:30 p.m.

ELEC V 344-L2B  
Applied Electronics and Electromechanics  
W2  
In Person Learning  
Mon [alternate weeks]  
1:00 p.m. - 3:00 p.m.

ELEC V 344-L2C  
Applied Electronics and Electromechanics  
W2  
In Person Learning  
Wed [alternate weeks]  
1:00 p.m. - 3:00 p.m.

ELEC V 344-L2D  
Applied Electronics and Electromechanics  
W2  
In Person Learning  
Tue [alternate weeks]  
4:00 p.m. - 6:00 p.m.

ELEC V 344-L2F  
Applied Electronics and Electromechanics  
W2  
In Person Learning  
Thu [alternate weeks]  
3:30 p.m. - 5:30 p.m.

ELEC V 344-L2A  
Applied Electronics and Electromechanics  
W2  
In Person Learning  
Mon (Alternate weeks)  
1:00 p.m. - 2:00 p.m.

ELEC V 371-201  
Biomedical Engineering Instrumentation  
W2  
In Person Learning  
Mon Wed  
12:30 p.m. - 2:00 p.m.

ELEC V 371-202  
Biomedical Engineering Instrumentation  
W2  
In Person Learning  
Fri  
1:00 p.m. - 2:00 p.m.

ELEC V 391-201  
Electrical Engineering Design Studio II  
W2  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:30 p.m.

ELEC V 391-202  
Electrical Engineering Design Studio II  
W2  
In Person Learning  
Tue Thu  
1:00 p.m. - 3:00 p.m.

ELEC V 391-201  
Electrical Engineering Design Studio II  
W2  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:30 p.m.

ELEC V 391-202  
Electrical Engineering Design Studio II  
W2  
In Person Learning  
Tue Thu  
1:00 p.m. - 3:00 p.m.

ELEC V 400-N_101  
Topics in Electrical Engineering  
W1  
In Person Learning  
Arranged  
Arranged

ELEC V 401-101  
Analog CMOS Integrated Circuit Design  
W1  
In Person Learning  
Tue Thu  
10:00 a.m. - 12:00 p.m.

ELEC V 401-T2A  
Analog CMOS Integrated Circuit Design  
W1  
In Person Learning  
Wed  
1:00 p.m. - 2:30 p.m.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ELEC_V 402-101</td>
<td>Introduction to VLSI Systems</td>
<td>Mon, Wed</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ELEC_V 403-201</td>
<td>Advanced Digital VLSI Systems</td>
<td>Mon, Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ELEC_V 404-201</td>
<td>RF Integrated Circuits</td>
<td>Tue, Thu</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 405-201</td>
<td>Optical Waveguides and Photonics</td>
<td>Mon, Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ELEC_V 406-201</td>
<td>Power Electronics</td>
<td>Mon, Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ELEC_V 408-201</td>
<td>Introduction to Robotics</td>
<td>Tue, Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 410-101</td>
<td>Antennas and Propagation</td>
<td>Mon, Wed</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ELEC_V 411-101</td>
<td>Semiconductor Lasers</td>
<td>Mon, Wed</td>
<td>4:30 p.m. - 6:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 412-101</td>
<td>Optical Waveguides and Photonics</td>
<td>Mon, Wed</td>
<td>6:30 p.m. - 8:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 413-101</td>
<td>Semiconductor Lasers</td>
<td>Mon, Wed</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 415-201</td>
<td>Semiconductor Devices: Physics, Design and Analysis</td>
<td>Tue, Thu</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 416-101</td>
<td>Digital Signal and Image Processing</td>
<td>Mon, Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ELEC_V 417-101</td>
<td>Digital Signal and Image Processing</td>
<td>Mon, Wed</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ELEC_V 418-101</td>
<td>Biologicals and Systems</td>
<td>Mon, Wed</td>
<td>4:30 p.m. - 6:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 419-101</td>
<td>Communication Systems I</td>
<td>Mon, Wed</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 420-101</td>
<td>Error Control Coding for Communications and Computers</td>
<td>Mon, Wed</td>
<td>6:00 p.m. - 7:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 421-201</td>
<td>Control Systems</td>
<td>Mon, Wed</td>
<td>7:00 p.m. - 8:00 p.m.</td>
<td>Arranged</td>
</tr>
<tr>
<td>ELEC_V 422-101</td>
<td>Power Electronics</td>
<td>Mon, Wed</td>
<td>8:00 p.m. - 9:00 p.m.</td>
<td>Arranged</td>
</tr>
</tbody>
</table>

*Note: Some courses have prerequisites and restrictions.*
Power electronics, transistors and IGBTs, analysis of idealised 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.

Power electronics, transistors and IGBTs, analysis of idealised 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.

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ELEC-V 491-001  ELEC-V 491-101  Economic Analysis of Engineering Projects  W1  Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, taxes 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 491-201  ELEC-V 491-201  Economic Analysis of Engineering Projects  W2  Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, taxes 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_001  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-C_201  ELEC-V 491-C_201  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-C_401  ELEC-V 491-C_401  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-C_STG  ELEC-V 491-C_STG  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-C_L2A  ELEC-V 491-C_L2A  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-L2A  ELEC-V 491-L2A  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-L0D  ELEC-V 491-L0D  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-P0D  ELEC-V 491-P0D  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-P0D  ELEC-V 491-P0D  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-S0D  ELEC-V 491-S0D  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-C_STG  ELEC-V 491-C_STG  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-C_L2A  ELEC-V 491-C_L2A  Electrical Engineering Capstone Design Project  W2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-E_001  ELEC-V 491-E_001  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-E_HKD  ELEC-V 491-E_HKD  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-E_HND  ELEC-V 491-E_HND  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged

ELEC-V 491-E_HSD  ELEC-V 491-E_HSD  Electrical Engineering Capstone Design Project  W1-2  Design, analysis, and implementation of solutions in response to real-world electrical engineering problems, 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. [3-0-0]  Preprocedure: ELEC 491.  In Person Learning  Arranged
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; 2-6-0] Prerequisite: ELEC 391.

Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0; 2-6-0] Prerequisite: ELEC 391. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0; 2-6-0] Prerequisite: ELEC 391.

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; 2-6-0] Prerequisite: ELEC 391. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0; 2-6-0] Prerequisite: ELEC 391.

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; 2-6-0] Prerequisite: ELEC 391.

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; 2-6-0] Prerequisite: ELEC 391.

Design, analysis, and implementation of solutions in response to a real-world biomedical 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; 2-6-0] Prerequisite: ELEC 391.

Design, analysis, and implementation of solutions in response to a real-world biomedical 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; 2-6-0] Prerequisite: ELEC 391.

Design, analysis, and implementation of solutions in response to a real-world biomedical 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; 2-6-0] Prerequisite: ELEC 391.

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Design, analysis, and implementation of solutions in response to a real-world biomedical 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; 2-6-0] Prerequisite: ELEC 391.

Biomedical Engineering Capstone Design Project
Research Experience in Electrical Engineering
Research Experience in Electrical Engineering
Undergraduate Thesis
Undergraduate Thesis
Undergraduate Thesis
Undergraduate Thesis
Undergraduate Thesis
Undergraduate Thesis
Undergraduate Thesis

Design, analysis, and implementation of solutions in response to a real-world biomedical 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. [3-0-0] or [3-6-0] Prerequisite: ELEC 491.
Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.
Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.
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. [3-0-0] or [3-12-0]. The credit value for this course will be determined in consultation with the student prior to the registration.
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. [3-0-0] or [3-12-0]. The credit value for this course will be determined in consultation with the student prior to the registration.
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3:00 p.m. - 6:00 p.m.
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Analogue Integrated Circuit Design
Advanced Topics in Very Large-Scale Integration (VLSI) Design
Integrated Circuits for Phase-Locked Loops
CMOS Design for Photonics
Mixed-Signal and RF Integrated Circuits and Systems Test
Medical Imaging
Advanced Biophotonics
Computational/Quantum Methods for the Nanoscale
Green Nanoelectronic Devices
Advanced Microsystems Design

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5:00 p.m. - 8:00 p.m.
9:30 a.m. - 11:00 a.m.
3:30 p.m. - 5:00 p.m.
10:00 a.m. - 12:00 p.m.
3:30 p.m. - 5:00 p.m.
3:30 p.m. - 5:00 p.m.
12:00 a.m. - 12:30 p.m.
3:30 p.m. - 5:00 p.m.
2:00 p.m. - 5:00 p.m.

This course is not eligible for Credit/D/Fail grading. [2-6-0; 2-6-0] Prerequisite: ELEC 391. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [0-6-0] or [0-12-0] project thesis is to be prepared according to specifications available from the departmental office. This course is not eligible for Credit/D/Fail grading. [3-0-0] or [3-12-0].

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<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>ENGL_V 100-001</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-002</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-003</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-004</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-005</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-006</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-007</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-008</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-009</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-010</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-011</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-012</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-013</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 100-014</td>
<td>Reading and Writing about Language and Literatures</td>
<td>1</td>
<td>Mon</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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Credit/D/Fail grading.
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Type</th>
<th>Description</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>ENGL_V 100-015</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed Fri 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ENGL_V 100-016</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ENGL_V 100-017</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ENGL_V 100-018</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ENGL_V 100-019</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>ENGL_V 100-020</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Tue Thu 12:40 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>ENGL_V 100-021</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>ENGL_V 100-022</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W1</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Mon Wed Fri 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 100-023</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Mon Wed Fri 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 100-024</td>
<td>Reading and Writing about Language and Literatures</td>
<td>W2</td>
<td>A writing-intensive introduction to language and literary studies through the exploration of texts in their critical and theoretical contexts. Fulfills the first-year component of the Faculty of Arts Writing and Research Requirement. Open only to students in the Faculty of Arts. Recommended for students intending to become English majors. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 110-001</td>
<td>Approaches to Literature and Culture</td>
<td>W1</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>ENGL_V 110-002</td>
<td>Approaches to Literature and Culture</td>
<td>W1</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>ENGL_V 110-003</td>
<td>Approaches to Literature and Culture</td>
<td>W1</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ENGL_V 110-004</td>
<td>Approaches to Literature and Culture</td>
<td>W1</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ENGL_V 110-005</td>
<td>Approaches to Literature and Culture</td>
<td>W1</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 110-006</td>
<td>Approaches to Literature and Culture</td>
<td>W1</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed Arranged</td>
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<tr>
<td>ENGL_V 110-007</td>
<td>Approaches to Literature and Culture</td>
<td>W2</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>ENGL_V 110-008</td>
<td>Approaches to Literature and Culture</td>
<td>W2</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>ENGL_V 110-009</td>
<td>Approaches to Literature and Culture</td>
<td>W2</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>Mon Wed 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ENGL_V 110-010</td>
<td>Approaches to Literature and Culture</td>
<td>W2</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning 2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ENGL_V 110-011</td>
<td>Approaches to Literature and Culture</td>
<td>W2</td>
<td>Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Mon Wed 2:00 p.m. - 3:00 p.m.</td>
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</table>
Approaches to Literature and Culture
12:00 p.m. - 1:00 p.m.

Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.
Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.

In Person Learning

11:00 a.m. - 12:00 p.m.

Approaches to Literature and Culture

Fri

Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.

In Person Learning

12:00 p.m. - 1:00 p.m.

Approaches to Literature and Culture

Fri

Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.

In Person Learning

1:00 p.m. - 2:00 p.m.

Approaches to Literature and Culture

Fri

Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.

In Person Learning

2:00 p.m. - 3:00 p.m.

Approaches to Literature and Culture

Fri
In Person Learning

Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.

Approaches to Literature and Culture

Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.

Approaches to Language and Communication

Study of selected examples of 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.

Approaches to Literature and Culture

Study of selected examples of literary and cultural expression: examples may include poetry, fiction, drama, life narratives, essays, graphic novels, screenplays, and narrative adaptations in film and other media. Essays are required. This course is not eligible for Credit/D/Fail grading.

Approaches to Language and Communication

Study of selected examples of 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.
ENGL_V 111-122 ENGL_V 111-122 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 111-123 ENGL_V 111-123 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 one of ENGL 140 or LNG 140. This course is not eligible for Credit/D/Fail grading. Equivalency: LNG 140. In Person Learning Tue Thu 11:00 a.m. - 12:00 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 Wed 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 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 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. - 2:30 p.m.

ENGL_V 223-002 ENGL_V 223-002 Literature in Canada W1 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 10:00 a.m. - 11:00 a.m.

ENGL_V 223-003 ENGL_V 223-003 Literature in the United States W1 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.
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.

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.

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.

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.

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.

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.

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.

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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.

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.

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.

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.

Introductory topics in Shakespeare studies that seek to identify relationships between Shakespeare's work and present-day levels and concerns. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

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.

Introductions to the 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.

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.

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.

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.

Introduction to the study of television series and television studies. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Thematic and genre 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.

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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.

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.

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.

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.

History of the English Language: Early History

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.

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.

Electoral principles and critical approaches practiced in the discipline of English, including normative and critical literary theory. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Exploration of the relationship between linguistics and other disciplines, including psychology, anthropology, sociology, and cognitive science. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

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.

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Analysis of theoretical methods and critical approaches practiced in the discipline of English studies. Required of all students in the English Humanities literature and language and 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 eligible for ENGL credit/D/Fail grading.

Exploration of the relationship between linguistics and other disciplines, including psychology, anthropology, sociology, and cognitive science. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

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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.

Phonetic Alphabet (via ENGL 318, ENGL 330 or the equivalent). Recommended: ENGL 318.

Principles of language change. The development and spread 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. This course is eligible for ENGL credit/D/Fail grading.

Introduction to theories of language and culture, and to techniques for analyzing 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.

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.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Times</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL_V 332-09C</td>
<td>Approaches to Media History</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>ENGL_V 333-A_001</td>
<td>History of the Book</td>
<td>W1</td>
<td>Survey of development of test 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 633. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>ENGL_V 342-001</td>
<td>Introduction to Old English</td>
<td>W1</td>
<td>Old English vocabulary, grammar, and translation, with readings in poetry and prose. Credit will be granted for only one of ENGL 342 and 442. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>ENGL_V 343-A_001</td>
<td>Anglo-Saxon and Early Medieval Literature</td>
<td>W2</td>
<td>Readings in the literature of early medieval (ca. 500-1300) 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.</td>
<td>In Person Learning</td>
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</tr>
<tr>
<td>ENGL_V 344-A_001</td>
<td>Middle English Literature</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
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</tr>
<tr>
<td>ENGL_V 344-A_06A</td>
<td>Middle English Literature</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>ENGL_V 347-A_001</td>
<td>Renaissance Literature</td>
<td>W2</td>
<td>Literature of the eleventh 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.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>ENGL_V 348-A_001</td>
<td>Shakespeare</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>ENGL_V 348-A_002</td>
<td>Shakespeare</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>ENGL_V 348-A_09C</td>
<td>Shakespeare</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>ENGL_V 349-A_001</td>
<td>Seventeenth-Century Literature</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ENGL_V 350-A_001</td>
<td>Milton</td>
<td>W1</td>
<td>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 355. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>ENGL_V 351-A_001</td>
<td>Restoration and Eighteenth-Century Literature</td>
<td>W1</td>
<td>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 505. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>ENGL_V 352-A_001</td>
<td>Eighteenth-Century Literature</td>
<td>W2</td>
<td>British and Global literature 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 352 and/or 355. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.</td>
<td>In Person Learning</td>
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</tr>
<tr>
<td>ENGL_V 353-A_001</td>
<td>Romantic Period Literature</td>
<td>W1</td>
<td>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 353 and/or 355. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>ENGL_V 355-A_001</td>
<td>Nineteenth-Century Literature</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>ENGL_V 360-A_001</td>
<td>Early Canadian Writing</td>
<td>W2</td>
<td>Pre-Confederation colonial literature from its emergence until the end of World War I. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>ENGL_V 362-A_001</td>
<td>Victorian Period Literature</td>
<td>W1</td>
<td>British and Global literature, 1822-1900, with 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.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>ENGL_V 362-A_002</td>
<td>Victorian Period Literature</td>
<td>W2</td>
<td>British and Global literature, 1822-1900, with 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.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>ENGL_V 364-A_001</td>
<td>Nineteenth-Century Literature</td>
<td>W1</td>
<td>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.</td>
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<tr>
<td>ENGL_V 365-A_001</td>
<td>Modernist Literature</td>
<td>W2</td>
<td>Literary experimentation in the 19th and 20th centuries 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.</td>
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</table>
Modernist Literature

- Fiction, poetry and/or drama written between 1880 and 1919. 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 466. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Twentieth Century Literature

- 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 388 and/or 472. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

U.S. Literature from 1800

- 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 WRT 370: Equivocality: WRT 370.

Literatures and Cultures of Africa and/or the Middle East

- Writing and culture in Africa 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 472. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Asian Canadian and/or Asian Transnational Studies

- 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 373 and/or 473. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Canadian Literature

- 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 374 and/or 474. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Indigenous Literature

- Indigenous writing and oral 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 375 and/or 475. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Indigenous writing and oral 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 376 and/or 476. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Post-colonial Literature

- 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 377 and/or 477. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Global South Connections

- 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 378 and/or 478. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

World Literature in English focusing on decolonization and post-colonial thought. Consult department website for current year’s offerings. Credit will be granted for up to 6 credits of ENGL 379 and/or 479. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

World 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. Credit will be granted for only one of ENGL 388 or 480: Equivocality: WRT 480.

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<tr>
<td>ENGL_V 489-001</td>
<td>Language Majors Seminar</td>
<td>Tu 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ENGL_V 489-002</td>
<td>Language Majors Seminar</td>
<td>Tu 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ENGL_V 489-001</td>
<td>Literature Majors Seminar</td>
<td>W 1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 489-002</td>
<td>Literature Majors Seminar</td>
<td>W 1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 490-003</td>
<td>Literature Majors Seminar</td>
<td>W 1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<td>ENGL_V 490-004</td>
<td>Literature Majors Seminar</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<td>ENGL_V 490-005</td>
<td>Literature Majors Seminar</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 490-006</td>
<td>Literature Majors Seminar</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 490-007</td>
<td>Literature Majors Seminar</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 491-G_001</td>
<td>Honours Seminar</td>
<td>W 2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 491-H_002</td>
<td>Honours Seminar</td>
<td>W 2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 491-I_003</td>
<td>Honours Seminar</td>
<td>W 2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 491-K_004</td>
<td>Honours Seminar</td>
<td>W 2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 491-L_005</td>
<td>Honours Seminar</td>
<td>W 2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 499-001</td>
<td>Honours Essay</td>
<td>W 10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 499-002</td>
<td>Honours Essay</td>
<td>W 10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 500-B_002</td>
<td>Research in English Studies</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 500-C_001</td>
<td>Research in English Studies</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 500-A_002</td>
<td>Studies in Bibliography</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 500-A_001</td>
<td>Studies in Criticism</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ENGL_V 502-A_002</td>
<td>Studies in Criticism</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 502-A_001</td>
<td>Studies in Prose</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 507-A_001</td>
<td>Studies in English Historical Linguistics</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ENGL_V 508-A_001</td>
<td>Studies in Rhetoric</td>
<td>W 12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credit Value</td>
<td>Offered In</td>
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<tr>
<td>ENGL_V 509-B_002</td>
<td>Studies in Rhetoric</td>
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<td>W2</td>
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<td>ENGL_V 514-A_001</td>
<td>In Person Learning</td>
<td></td>
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<td>ENGL_V 525-A_001</td>
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<td>W1</td>
</tr>
<tr>
<td>ENGL_V 525-A_002</td>
<td>In Person Learning</td>
<td></td>
<td>W2</td>
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<tr>
<td>ENGL_V 528-A_001</td>
<td>Studies in the Nineteenth Century</td>
<td></td>
<td>W1</td>
</tr>
<tr>
<td>ENGL_V 528-B_002</td>
<td>Studies in the Nineteenth Century</td>
<td></td>
<td>W2</td>
</tr>
<tr>
<td>ENGL_V 541-A_001</td>
<td>Studies in American Literature Since 1880</td>
<td></td>
<td>W1</td>
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<tr>
<td>ENGL_V 541-A_002</td>
<td>Studies in Canadian Literature</td>
<td></td>
<td>W2</td>
</tr>
<tr>
<td>ENGL_V 541-A_003</td>
<td>Studies in Commonwealth/Post-colonial Literatures</td>
<td></td>
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<tr>
<td>ENGL_V 547-A_001</td>
<td>Directed Reading</td>
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<td>W1</td>
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<tr>
<td>ENGL_V 547-B_002</td>
<td>Directed Reading</td>
<td></td>
<td>W1-2</td>
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<tr>
<td>ENGL_V 549-A_001</td>
<td>Master's Thesis</td>
<td></td>
<td>W1-2</td>
</tr>
<tr>
<td>ENGL_V 549-A_002</td>
<td>Master's Thesis</td>
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<td>ENGL_V 549-A_003</td>
<td>Master's Thesis</td>
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<td>W2</td>
</tr>
<tr>
<td>ENGL_V 551-A_001</td>
<td>Studies in Literary Movements</td>
<td></td>
<td>W1</td>
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<tr>
<td>ENGL_V 551-A_002</td>
<td>Studies in Literary Theory</td>
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<tr>
<td>ENGL_V 553-A_001</td>
<td>Studies in Literary Theory</td>
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<td>Studies in Literary Theory</td>
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<tr>
<td>ENGL_V 553-C_001</td>
<td>Studies in Literary Theory</td>
<td></td>
<td>W2</td>
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<tr>
<td>ENGL_V 555-A_001</td>
<td>Studies in Literature and the Other Arts</td>
<td></td>
<td>W2</td>
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<tr>
<td>ENGL_V 561-A_001</td>
<td>Topics in Science and Technology Studies</td>
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<td>W1</td>
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<tr>
<td>ENGL_V 565-A_001</td>
<td>Studies in Environmental Humanities</td>
<td></td>
<td>W2</td>
</tr>
<tr>
<td>ENGL_V 569-B_001</td>
<td>Doctoral Dissertation</td>
<td></td>
<td>W1-2</td>
</tr>
<tr>
<td>ENGL_V 569-C_001</td>
<td>Doctoral Dissertation</td>
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<td>W1</td>
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<tr>
<td>ENGL_V 569-D_001</td>
<td>Doctoral Dissertation</td>
<td></td>
<td>W2</td>
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</table>

This course is not eligible for Credit/D/Fail grading.

Advanced seminar on a theme or topic of interest to both STS and English. This course is not eligible for Credit/D/Fail grading.

Advanced seminar on arts and humanities research related to ecology and environmentalism. This course is not eligible for Credit/D/Fail grading.

Topics in Science and Technology Studies

Studies in Environmental Humanities

In Person Learning

Mon: 10:00 a.m. - 1:00 p.m.

Tue: 9:30 a.m. - 12:30 p.m.

Wed: 9:30 a.m. - 12:30 p.m.

Thu: 3:00 p.m. - 6:30 p.m.

Fri: 10:00 a.m. - 1:00 p.m.

Sat: 10:00 a.m. - 1:00 p.m.

Sun: 10:00 a.m. - 1:00 p.m.
Laboratory Techniques in Physics

Enrolled: 101
Time: 2:00 p.m. - 5:00 p.m.

In Person Learning

Thu

Some of the experiments will be based on the lecture material for PHYS 410. Other techniques and subjects will also be covered. [0-3-0] Corequisite: PHYS 301.

In Person Learning

Tue

Some of the experiments will be based on the lecture material for PHYS 410. Other techniques and subjects will also be covered. [0-3-0] Corequisite: PHYS 301.

In Person Learning

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In Person Learning

Thu

Some of the experiments will be based on the lecture material for PHYS 410. Other techniques and subjects will also be covered. [0-3-0] Corequisite: PHYS 301.
Environmental Engineering Intermediate Design Project

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 problems. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: ENVE 301. In Person Learning W2 8:30 a.m. - 9:30 a.m.

Environmental Engineering Intermediate Design Project

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 problems. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] Prerequisite: ENVE 301. In Person Learning W2 9:30 a.m. - 11:00 a.m.

Environmental Engineering Capstone Project

In Person Learning W1 9:00 a.m. - 12:00 p.m.

Introduction to Environmental Science

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 W1 2:00 p.m. - 5:00 p.m.

Climate Action Lab 1

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 Wed 3:00 p.m. - 5:00 p.m.

Climate Action Lab 2

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 Tue Thu 5:00 p.m. - 6:30 p.m.

Climate Action Lab 1

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 400-101 ENVR_V 400 001 Community Project in Environmental Science W1-2 2:00 p.m. - 4:00 p.m. 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 (P) Prerequisite: ENVR 200]. In Person Learning. Mon-Thurs Thu 3:30 p.m. - 5:00 p.m.

ENVR_V 400-101 ENVR_V 400 002 Community Project in Environmental Science W1-2 2:00 p.m. - 4:00 p.m. 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 (P) Prerequisite: ENVR 200]. In Person Learning. Mon-Thurs Thu 3:30 p.m. - 5:00 p.m.

ENVR_V 401-101 ENVR_V 401 001 Climate Action Lab 3 W1 Community engaged climate action projects; skill building for climate action. Pass/Fail. This course is scorable for Credit/No Credit grading. [3-0-0 (P) Prerequisite: One of ENVR 301, ENVR 302]. In Person Learning. Mon-Thurs Thu 5:00 p.m. - 6:30 p.m.

ENVR_V 401-102 ENVR_V 401 002 Climate Action Lab 3 W1 Community engaged climate action projects; skill building for climate action. Pass/Fail. This course is scorable for Credit/No Credit grading. [3-0-0 (P) Prerequisite: One of ENVR 301, ENVR 302]. In Person Learning. Mon-Thurs Thu 5:00 p.m. - 6:30 p.m.

ENVR_V 401-103 ENVR_V 401 001 Climate Action Lab 3 W1 Community engaged climate action projects; skill building for climate action. Pass/Fail. This course is scorable for Credit/No Credit grading. [3-0-0 (P) Prerequisite: One of ENVR 301, ENVR 302]. In Person Learning. Mon-Thurs Thu 5:00 p.m. - 6:30 p.m.

ENVR_V 401-11A ENVR_V 401 11A Climate Action Lab 3 W1 Community engaged climate action projects; skill building for climate action. Pass/Fail. This course is scorable for Credit/No Credit grading. [3-0-0 (P) Prerequisite: One of ENVR 301, ENVR 302]. In Person Learning. Mon-Thurs Thu 5:00 p.m. - 6:30 p.m.

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 (P) Prerequisite: ENVR 401]. In Person Learning. Mon-Thurs 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 (P) Prerequisite: Fourth-year standing in B.Sc., B.A.Sc. or related programs. In Person Learning. Mon-Thurs Thu 5:00 p.m. - 6:30 p.m.

ENVR_V 410-201 ENVR_V 410 201 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 (P) Prerequisite: Fourth-year standing in B.Sc., B.A.Sc. or related programs. In Person Learning. Mon-Thurs Thu 5:00 p.m. - 6:30 p.m.

ENVR_V 420-201 ENVR_V 420 201 Ecological Study 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. Examination of biogeochemical processes related to water quality, and human impacts on water resources. [3-0-0 (P) Prerequisite: Third or fourth-year standing in Science, Applied Science, Land and Food Sciences, or Forestry. In Person Learning. Wed 2:00 p.m. - 5:00 p.m.

ENVR_V 430-201 ENVR_V 430 201 Ecological Dimensions of Sustainability W1 Current issues. Application to agriculture, energy, and resource systems in terrestrial and aquatic contexts. Analysis of complex problems; incorporation of science into novel interdisciplinary solutions. [3-0-0 (P) Prerequisite: Class standing 3, and either (1) one of ENVR 300, BIOL 230, (HIST 200 or 205) or other demonstrated ecology background. In Person Learning. Fri 2:00 p.m. - 5:00 p.m.

ENVR_V 431-201 ENVR_V 431 201 Ecological Dimensions of Sustainability W1 Current issues. Application to agriculture, energy, and resource systems in terrestrial and aquatic contexts. Analysis of complex problems; incorporation of science into novel interdisciplinary solutions. [3-0-0 (P) Prerequisite: Class standing 3, and either (1) one of ENVR 300, BIOL 230, (HIST 200 or 205) or other demonstrated ecology background. In Person Learning. Fri 2:00 p.m. - 5:00 p.m.

ENVR_V 440-201 ENVR_V 440 201 Analytical Methods in Sustainability Science W1 Sustainability analysis through a series of case studies. Example approaches include cost-benefit analysis, trade-off analysis, and life-cycle analysis. Active learning in a computer lab using real-world data. [3-0-0 (P) Prerequisite: One of ENVR 200, ASC 220, SCI 220, GEOG 211, Third-year standing. In Person Learning. Wed-Fri Fri 2:00 p.m. - 3:00 p.m.

ENVR_V 449-101 ENVR_V 449 101 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

ENVR_V 449-120 ENVR_V 449 120 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

ENVR_V 449-201 ENVR_V 449 201 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

ENVR_V 449-202 ENVR_V 449 202 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

ENVR_V 449-301 ENVR_V 449 301 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

ENVR_V 449-801 ENVR_V 449 801 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

ENVR_V 449-802 ENVR_V 449 802 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

ENVR_V 449-803 ENVR_V 449 803 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

ENVR_V 449-901 ENVR_V 449 901 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

ENVR_V 500-101 ENVR_V 500 101 Environmental Science Honours Thesis W1-2 2-3-0 (P) Prerequisites: ENVR 400 and fourth-year standing in the B.Sc. Environmental Science honours program. In Person Learning. Thu 2:00 p.m. - 3:30 p.m.

EOSC_V 110-101 EOSC_V 110 101 The Solid Earth: A Dynamic Planet W1 Earth's singe, composition, structure, and natural resources. Plate tectonics as the driving force for volcanism, mountain building, and earthquakes. Imaging Earth's interior. Environmental governance and sustainability. (Consult the Credit Exclusion list for the Faculty of Science section of the Calendar.) [3-0-0]
In Person Learning
Mon Wed Fri
1:00 p.m. - 2:00 p.m.
Laboratory Exploration of Planet Earth
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
Mon Wed Fri
11:00 a.m. - 12:00 p.m.
The Solid Earth: A Dynamic Planet
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 for the Faculty of Science section of the Calendar.) [3-0-0]

In Person Learning
Mon Wed Fri
11:00 a.m. - 2:00 p.m.
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
Mon Wed Fri
2:00 p.m. - 3:00 p.m.
The Climate System
W2
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
Mon Wed Fri
11:00 a.m. - 12:00 p.m.
The Catastrophic Earth: Natural Disasters
W2
An examination of 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.
The Catastrophic Earth: Natural Disasters
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
Mon Wed Fri
11:00 a.m. - 2:00 p.m.
The Climate System
W2
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
Mon Wed Fri
11:00 a.m. - 12:00 p.m.
The Catastrophic Earth: Natural Disasters
W2
An examination of 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.
The Catastrophic Earth: Natural Disasters
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
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11:00 a.m. - 12:00 p.m.
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In Person Learning
Mon Wed Fri
11:00 a.m. - 12:00 p.m.
The Catastrophic Earth: Natural Disasters
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An examination of 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]
Earth Science for Engineers

- **W1** Earth's Treasures: Gold and Gems
  - W1 In Person Learning
  - Thu
  - 101
  - Arranged
  - 2:00 p.m. - 4:00 p.m.
  - Corequisites: CHEM 110, CHEM 111, CHEM 120.

- **W1** Earth's Treasures: Gold and Gems
  - W1 In Person Learning
  - Fri
  - 101
  - Corequisites: CHEM 110, CHEM 111, CHEM 120.

- **W1** Earth Science for Engineers
  - W1 In Person Learning
  - Mon Wed Fri
  - 210
  - Arranged
  - 5:00 p.m. - 7:00 p.m.
  - Corequisites: MATH 105, MATH 121, SCIE 001.

- **W1** Earth Science for Engineers
  - W1 In Person Learning
  - Tue Thu
  - 210
  - In Person Learning
  - 2:00 p.m. - 4:00 p.m.
  - Corequisites: MATH 105, MATH 121, SCIE 001.

- **W1** Earth Science for Engineers
  - W1 In Person Learning
  - Wed
  - 210
  - In Person Learning
  - 2:00 p.m. - 4:00 p.m.
  - Corequisites: MATH 105, MATH 121, SCIE 001.

- **W1** Earth Science for Engineers
  - W1 In Person Learning
  - Thu
  - 210
  - In Person Learning
  - 4:00 p.m. - 6:00 p.m.
  - Corequisites: MATH 105, MATH 121, SCIE 001.

- **W1** Earth Science for Engineers
  - W1 In Person Learning
  - Fri
  - 210
  - In Person Learning
  - 4:00 p.m. - 6:00 p.m.
  - Corequisites: MATH 105, MATH 121, SCIE 001.

- **W1** Computational Methods in Geological Engineering
  - W2 Computer Methods in Earth, Ocean and Atmospheric Sciences
    - W2 In Person Learning
    - Mon Wed Fri
    - 211
    - Arranged
    - 101
    - Corequisites: CHEM 110, CHEM 111, CHEM 120.

- **W1** Computer Methods in Earth, Ocean and Atmospheric Sciences
  - W2 Computer Methods in Earth, Ocean and Atmospheric Sciences
    - W2 In Person Learning
    - Tue Thu
    - 211
    - In Person Learning
    - 5:00 p.m. - 7:00 p.m.
    - Corequisites: CHEM 110, CHEM 111, CHEM 120, CHEM 141, SCI 001.

- **W1** Computer Methods in Earth, Ocean and Atmospheric Sciences
  - W2 Computer Methods in Earth, Ocean and Atmospheric Sciences
    - W2 In Person Learning
    - Wed
    - 211
    - In Person Learning
    - 9:00 a.m. - 11:00 a.m.
    - Corequisites: CHEM 110, CHEM 111, CHEM 120.

- **W1** Computer Methods in Earth, Ocean and Atmospheric Sciences
  - W2 Computer Methods in Earth, Ocean and Atmospheric Sciences
    - W2 In Person Learning
    - Fri
    - 211
    - In Person Learning
    - 10:00 a.m. - 12:00 p.m.
    - Corequisites: CHEM 110, CHEM 111, CHEM 120.

- **W1** Computer Methods in Earth, Ocean and Atmospheric Sciences
  - W2 Computer Methods in Earth, Ocean and Atmospheric Sciences
    - W2 In Person Learning
    - Mon Wed Fri
    - 211
    - Arranged
    - 101
    - Corequisites: CHEM 110, CHEM 111, CHEM 120.

- **W1** Computer Methods in Earth, Ocean and Atmospheric Sciences
  - W2 Computer Methods in Earth, Ocean and Atmospheric Sciences
    - W2 In Person Learning
    - Tue Thu
    - 211
    - In Person Learning
    - 10:00 a.m. - 12:00 p.m.
    - Corequisites: CHEM 110, CHEM 111, CHEM 120.

- **W1** Computer Methods in Earth, Ocean and Atmospheric Sciences
  - W2 Computer Methods in Earth, Ocean and Atmospheric Sciences
    - W2 In Person Learning
    - Wed
    - 211
    - In Person Learning
    - 10:00 a.m. - 12:00 p.m.
    - Corequisites: CHEM 110, CHEM 111, CHEM 120.
In Person Learning

Introductory Petrology

Tues Thurs

L1A

223

In Person Learning

Introductory Petrology

Field Techniques

11:00 a.m. - 12:00 p.m.

In Person Learning

Introductory Mineralogy

Wednesdays

W1

222

In Person Learning

Geological Time and Stratigraphy

Wednesdays

W2

222

In Person Learning

Field Techniques

Tuesdays

W2

222

In Person Learning

Field Techniques

Wednesdays

W2

222

In Person Learning

Field Techniques

Fridays

W2

222

In Person Learning

Field Techniques

Wednesdays

W2

222

In Person Learning

Field Techniques

Wednesdays

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In Person Learning

Field Techniques

Tuesdays

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In Person Learning

Field Techniques

Tuesdays

W2

222

Introduction to crystallography, physical and chemical properties of minerals. Recognition and identification of common minerals. Please consult the Faculty of Science Credit-Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/core-exclusion-lists. [2-2-0] Corequisite: EOSC 221.

Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: One of CHEM 121, CHEM 141, SCIE 001.

Measuring geological time and understanding Earth history using stratigraphic principles, paleontology and radioactive decay. Please consult the Faculty of Science Credit-Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/core-exclusion-lists. [2-2-0] Prerequisite: Second-year standing in Science. One of EOSC 220, EOSC 221, GEOB 103 is recommended.
Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips or weekends plus a seven-day field school after Spring examinations. A fee is to be paid (January 31: [3-0-0] Computer: EOSC 231)

**Field Techniques**

**Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips or weekends plus a seven-day field school after Spring examinations. A fee is to be paid (January 31: [3-0-0] Computer: EOSC 231)**

**Site Investigation**

- Theory and practice of site investigation for geological engineers, including background studies, fieldwork, 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 230. Computer: EOSC 231
- Theory and practice of site investigation for geological engineers, including background studies, fieldwork, 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 230. Computer: EOSC 231


- The Earth as a planet: its composition, internal dynamics, and surface evolution. Rotation, magnetic field, plate tectonics, earthquakes, volatiles. The oceans, atmosphere, and biosphere as components of a varying 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-lits-b[3-0-0] Prerequisite: Course standing 2.

- The Earth as a planet: its composition, internal dynamics, and surface evolution. Rotation, magnetic field, plate tectonics, earthquakes, volatiles. The oceans, atmosphere, and biosphere as components of a varying 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-lits-b[3-0-0] Prerequisite: Course standing 2.

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The origin and formation of igneous rocks. [2-3-0] Prerequisite: EOSC 221.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Day(s)</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOSC_V 325-101</td>
<td>Principles of Physical Hydrogeology</td>
<td>3</td>
<td>One of MATH 101, MATH 105, MATH 121, SCIE 001.</td>
<td>Tue</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 325-701</td>
<td>Principles of Physical Hydrogeology</td>
<td>3</td>
<td>One of MATH 101, MATH 105, MATH 121, SCIE 001.</td>
<td>Tue</td>
<td>3:30 p.m. - 5:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 326-101</td>
<td>Earth and Life Through Time</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>EOSC_V 326-99A</td>
<td>Earth and Life Through Time</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>EOSC_V 326-99C</td>
<td>Earth and Life Through Time</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>EOSC_V 328-101</td>
<td>Field Geology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Fri</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>EOSC_V 329-101</td>
<td>Quantitative Groundwater Hydrology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>EOSC_V 329-11A</td>
<td>Quantitative Groundwater Hydrology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 329-11B</td>
<td>Quantitative Groundwater Hydrology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>EOSC_V 329-11C</td>
<td>Quantitative Groundwater Hydrology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 329-11D</td>
<td>Quantitative Groundwater Hydrology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 330-101</td>
<td>Principles of Geomorphology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Fri</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 330-11A</td>
<td>Principles of Geomorphology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 330-11B</td>
<td>Principles of Geomorphology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Fri</td>
<td>3:30 p.m. - 5:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 330-11C</td>
<td>Principles of Geomorphology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Fri</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 330-11D</td>
<td>Principles of Geomorphology</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Fri</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 331-101</td>
<td>Introduction to Mineral Deposits</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>EOSC_V 331-11A</td>
<td>Introduction to Mineral Deposits</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EOSC_V 331-11B</td>
<td>Introduction to Mineral Deposits</td>
<td>3</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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</tbody>
</table>
Environmental, Geotechnical, and Exploration Geophysics I

Introduction to economic geology and models related to mineral exploration. Study includes logistical and technical aspects of mineral exploration. [3-0-0] Prerequisite: EOSC 201.

In Person Learning Mon 8:00 a.m. - 10:00 a.m.

Tectonic Evolution of North America

Preliminary reading and discussion of principles of plate tectonics and their applications in understanding the geological evolution of the Earth. [3-0-0] Prerequisite: EOSC 201 or permission of the instructor.

In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Elemental and Isotopic Geochemistry

Analytical methods in geochronology, major and trace element geochemistry, radiogenic isotopes, geochronology of seawater, the mantle, basalts, subduction zones, sedimentary rocks, continental crust. [3-0-2] Prerequisite: EOSC 231.

In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

Geophysical Continuum Dynamics

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 geological 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.

Elemental and Isotopic Geochemistry

Analytical methods in geochronology, major and trace element geochemistry, radiogenic isotopes, geochronology of seawater, the mantle, basalts, subduction zones, sedimentary rocks, continental crust. [3-0-2] Prerequisite: EOSC 231.

In Person Learning Wed 3:00 p.m. - 6:00 p.m.

Climate Change: Causes and Solutions

Mechanisms and processes of past and future global climate change. Climate models and projected impacts. Climate solutions including carbon sequestration, adaptation and governance. [1-0-0] Prerequisite: Either (a) EOSC 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 111, PHYS 115, PHYS 127.

In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Geophysical Continuum Dynamics

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 111, PHYS 115, PHYS 127.

In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

Geophysical Continuum Dynamics

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 111, PHYS 115, PHYS 127.

In Person Learning Mon Wed Fri 3:00 p.m. - 5:00 p.m.

Analysis of Time Series and Inverse Theory for Earth Scientists

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 111, PHYS 115, PHYS 127.

In Person Learning Mon Wed Fri 3:00 p.m. - 5:00 p.m.

Analysis of Time Series and Inverse Theory for Earth Scientists

Physical and chemical processes and their controls on the distribution of plankton in the ocean. [3-0-0] Prerequisite: Either (a) EOSC 001 or (b) one of MATH 101, MATH 103, MATH 105, MATH 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 111, PHYS 115, PHYS 127.

In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

Environmental, Geotechnical, and Exploration Geophysics I

Introduction to economic geology and models related to mineral exploration. Study includes logistical and technical aspects of mineral exploration. [3-0-0] Prerequisite: EOSC 201.

In Person Learning Mon Wed Fri 8:00 a.m. - 10:00 a.m.

Environmental, Geotechnical, and Exploration Geophysics I

Introduction to economic geology and models related to mineral exploration. Study includes logistical and technical aspects of mineral exploration. [3-0-0] Prerequisite: EOSC 201.

In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

Environmental, Geotechnical, and Exploration Geophysics I

Introduction to economic geology and models related to mineral exploration. Study includes logistical and technical aspects of mineral exploration. [3-0-0] Prerequisite: EOSC 201.

In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Environmental, Geotechnical, and Exploration Geophysics I

Introduction to economic geology and models related to mineral exploration. Study includes logistical and technical aspects of mineral exploration. [3-0-0] Prerequisite: EOSC 201.

In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

Environmental, Geotechnical, and Exploration Geophysics I

Introduction to economic geology and models related to mineral exploration. Study includes logistical and technical aspects of mineral exploration. [3-0-0] Prerequisite: EOSC 201.

In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.
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Technical report required. Restrictions 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.

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Co-operative Work Placement III (W1-201) - 4 credits
Co-operative Work Placement IV (W2-201) - 5 credits

Advanced Mineralogy Graduate Seminar Course (W1-201) - 4 credits
This course is not eligible for Credit/D/Fail grading.

Data Analysis in Atmospheric, Earth and Ocean Sciences (W1-101) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Advanced Geophysical Fluid Dynamics (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Introduction to Geological Field Mechanics (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Graduate Seminar Course (W1-101) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Teaching and Learning in Earth, Ocean and Atmospheric Sciences (W1-101) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Science Communication and Outreach in Marine and Other Informal Learning Settings (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Advanced Mineralogy (W1-101) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Advanced Mineralogy (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Isotope Geology (W1-101) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Magnetic Ore Deposits (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Mechanics of Natural Deformation (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Instrumentation and Monitoring in Geological Engineering Practice (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Topics in Groundwater Risk Management (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Field Laboratory in Groundwater Hydrology (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Groundwater Modelling in Practice (W1-101) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Geological Engineering: Soils and Weak Rocks (W2-201) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Geological Engineering: Soils and Weak Rocks (W2-101) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Geological Engineering: Soils and Weak Rocks (W2-12A) - 5 credits
This course is not eligible for Credit/D/Fail grading.

Geological Engineering: Soils and Weak Rocks (W2-11A) - 5 credits
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Application of geomechanics and engineering design tools in complex geological environments. Influence and treatment of geological anisotropy; use of field data, geotechnical monitoring and numerical analyses for tunnelling, mining and rock slope engineering projects. Case histories. See credit exclusion list www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. This course is not eligible for Credit/D/Fail grading. 

Application of geomechanics and engineering design tools in complex geological environments. Influence and treatment of geological anisotropy; use of field data, geotechnical monitoring and numerical analyses for tunnelling, mining and rock slope engineering projects. Case histories. See credit exclusion list www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. This course is not eligible for Credit/D/Fail grading.

This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) EOSC 430 or (b) EOSC 548 and EOSC 553.

This course is not eligible for Credit/D/Fail grading. 

In Person Learning 

Online Learning 

Thu 2:00 p.m. - 4:00 p.m.

In Person Learning 

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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.
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</tbody>
</table>

**Course Descriptions:**

- **EPSE 310-A_637:**
  - *Assessment and Learning in the Classroom*
  - 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.

- **EPSE 311-63C:**
  - *Development and Exceptionality in the Regular Classroom*
  - Development and Exceptionality in the Regular Classroom. 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.

- **EPSE 311-640:**
  - *Development and Exceptionality in the Regular Classroom*
  - Development and Exceptionality in the Regular Classroom. 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.

- **EPSE 311-641:**
  - *Development and Exceptionality in the Regular Classroom*
  - Development and Exceptionality in the Regular Classroom. 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.

- **EPSE 312-62A:**
  - *Classroom Inclusion of Students who are Blind and Visually Impaired*
  - Classroom Inclusion of Students who are Blind and Visually Impaired. 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.

- **EPSE 312-62C:**
  - *Classroom Inclusion of Students who are Blind and Visually Impaired*
  - Classroom Inclusion of Students who are Blind and Visually Impaired. 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Section</th>
<th>Credits</th>
<th>Type</th>
<th>Delivery</th>
<th>Days</th>
<th>Time</th>
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<tr>
<td>EPSE_V 406-63B</td>
<td>Typical and Atypical Development in Infants and Children</td>
<td>W1</td>
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<td>EPSE_V 406-63F</td>
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<td>EPSE_V 408-63C</td>
<td>Educational Programming for Highly Able Learners</td>
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<td>EPSE_V 411-074</td>
<td>Augmentative and Alternative Communication for Individuals with Severe Speech and/or Physical Impairments</td>
<td>W2</td>
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<td>EPSE_V 421-074</td>
<td>Assessment of Learning Difficulties</td>
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<td>EPSE_V 422-074</td>
<td>Assessment of Learning Difficulties</td>
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<td>EPSE_V 426-63C</td>
<td>Introduction to the Education of students who are Deaf or Hard of Hearing</td>
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<td>EPSE_V 431-074</td>
<td>Programming for Children with Specific Learning Disabilities</td>
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<td>EPSE_V 436-074</td>
<td>Survey of Behaviour Disorders in Children and Adolescents</td>
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<td>EPSE_V 437-074</td>
<td>Interventions for Children and Adolescents with Behaviour Disorders</td>
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<tr>
<td>EPSE_V 449-63A</td>
<td>Education of Students with Autism</td>
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<td>Human Development in Education</td>
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<td>EPSE_V 481-074</td>
<td>Survey of Behaviour Disorders in Children and Adolescents</td>
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<td>EPSE_V 482-074</td>
<td>Survey of Behaviour Disorders in Children and Adolescents</td>
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**Additional Notes:**
- **EPSE_V 408-63C** and **EPSE_V 408-63D** are offered as online learning options.
- **EPSE_V 411-074** is offered in person and online.
- **EPSE_V 421-074** is offered in person and online.
- **EPSE_V 426-63C** is offered in person and online.
- **EPSE_V 431-074** is offered in person and online.
- **EPSE_V 432-63C** is offered in person and online.
- **EPSE_V 436-074** is offered in person and online.
- **EPSE_V 437-074** is offered in person and online.
- **EPSE_V 449-63A** is offered in person and online.
- **EPSE_V 449-63B** is offered in person and online.
- **EPSE_V 449-63C** is offered in person and online.
- **EPSE_V 449-63D** is offered in person and online.
- **EPSE_V 449-63E** is offered in person and online.
- **EPSE_V 449-63F** is offered in person and online.
- **EPSE_V 462-074** is offered in person and online.
- **EPSE_V 481-074** is offered in person and online.
- **EPSE_V 482-074** is offered in person and online.

For more detailed information, please refer to the course descriptions and prerequisites mentioned above.
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<tr>
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<th>Time</th>
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<td>EPSE 482-075</td>
<td>Introduction to Statistics for Research in Education</td>
<td>0.75</td>
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<td>EPSE 483-03A</td>
<td>Reading and Interpreting Research in Education</td>
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<td>Online Learning</td>
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<td>EPSE 500-074</td>
<td>Seminar in Human Development, Learning and Culture</td>
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<tr>
<td>EPSE 501-075</td>
<td>Cultural Perspectives on Learning, Development and Media</td>
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<td>EPSE 505-075</td>
<td>Foundations in Human Development: Infancy to Adulthood</td>
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<td>EPSE 508-075</td>
<td>Applied Psychopathology Across the Lifespan</td>
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<tr>
<td>EPSE 512-074</td>
<td>Critical Issues in Special Education</td>
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<td>Critical Issues in Special Education</td>
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<tr>
<td>EPSE 515-A_075</td>
<td>Building Supportive School and Community Environments to Prevent Problem Behaviour</td>
<td>0.75</td>
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<td>EPSE 517-075</td>
<td>Acoustic and Physical Environments in the Classroom</td>
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<tr>
<td>EPSE 519-074</td>
<td>Language Acquisition and Evaluation of Learners Who Are Deaf and Hard of Hearing</td>
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<tr>
<td>EPSE 524-C_074</td>
<td>Practicum and Seminar in the Education of Learners Who Are Deaf and Hard of Hearing</td>
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<td>EPSE 525-074</td>
<td>Dual Language Approaches to Instruction with Learners Who Are Deaf and Hard of Hearing</td>
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<tr>
<td>EPSE 526-076</td>
<td>Seminar in Specific Learning Disabilities</td>
<td>0.76</td>
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<td>EPSE 528-075</td>
<td>Basic Principles of Measurement</td>
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<td>EPSE 528-076</td>
<td>Basic Principles of Measurement</td>
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<td>EPSE 529-074</td>
<td>Development of Scales and Measures</td>
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<td>Data-Based Individualization of Academic Interventions for Learning Difficulties</td>
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<td>EPSE 534-074</td>
<td>Academic Assessment</td>
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<td>EPSE 535-074</td>
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<td>Programming in Orientation and Mobility</td>
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<td>Research Issues and Trends in the Education of Students with Visual Impairments</td>
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<td>Course Code</td>
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<td>EPSE 543-074</td>
<td>Working with Students with Visual Impairments: Elementary and Secondary Curriculum</td>
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<td>EPSE_V</td>
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<td>Assistive Technology for Teachers of Students with Visual Impairments</td>
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<td>Seminar in Autism</td>
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<td>W2</td>
<td>1:30 p.m. - 3:00 p.m.</td>
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<td>Professional, Ethical and Legal Issues in School and Applied Child Psychology</td>
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<td>EPSE_V</td>
<td>W1</td>
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<td>School-based Consultation</td>
<td>0.74</td>
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<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE 553-074</td>
<td>Theories of Cognitive and Affective Abilities</td>
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<td>Cognitive and Academic Assessment Practicum</td>
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<td>EPSE_V</td>
<td>W2</td>
<td>1:30 p.m. - 3:00 p.m.</td>
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<tr>
<td>EPSE 557-074</td>
<td>Social and Dementia Interventions with Children and Youth</td>
<td>0.74</td>
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<td>EPSE_V</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE 560-A-074</td>
<td>Laboratory in School and Applied Child Psychology</td>
<td>0.74</td>
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<td>EPSE_V</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>EPSE_V</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE 560-A-076</td>
<td>Laboratory in School and Applied Child Psychology</td>
<td>0.76</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
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<td>EPSE 561-4-075</td>
<td>Laboratory Practicum</td>
<td>0.75</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
<td>W1-2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE_V</td>
<td>W1-2</td>
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<td>Laboratory Practicum</td>
<td>0.77</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
<td>W1-2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EPSE 562-074</td>
<td>Designing Inclusive Learning Communities: From Theory to Practice</td>
<td>0.74</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EPSE 563-075</td>
<td>Inclusive Assessment and Programming for Students Requiring Targeted Supports</td>
<td>0.75</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE 565-A-075</td>
<td>Special Course in Subject Matter Field</td>
<td>0.75</td>
<td>Online Learning</td>
<td>EPSE_V</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE 572-074</td>
<td>Applications of Behaviour Analysis</td>
<td>0.74</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
<td>W1</td>
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<td>EPSE 574-074</td>
<td>Principles of Behaviour Analysis</td>
<td>0.74</td>
<td>Online Learning</td>
<td>EPSE_V</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EPSE 575-074</td>
<td>Seminar in Instructional Methods for Persons with Significant Learning Challenges</td>
<td>0.74</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>EPSE 576-074</td>
<td>Assessment and Positive Behaviour Support in School and Community Settings</td>
<td>0.74</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
<td>W1</td>
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<td>EPSE 577-075</td>
<td>Seminar in Assessment and Positive Behaviour Support in School and Community Settings</td>
<td>0.75</td>
<td>In Person Learning</td>
<td>EPSE_V</td>
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<td>EPSE 578-075</td>
<td>Ethics for Behaviour Analysis</td>
<td>0.75</td>
<td>In Person Learning</td>
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**Field Experiences**

This course is not eligible for Credit/D/Fail grading.

**Structural Equation Modelling and Factor Analysis**

Wed

4:30 p.m. - 7:30 p.m.

**Correlational Designs and Analysis in Educational Research**

Tue

4:30 p.m. - 7:30 p.m.

**Indigenous Pathways Through Social and Emotional Learning**

W1-2

Pass/Fail. 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.

**Investigation and Report of a Problem in Education**

Mon

4:30 p.m. - 7:30 p.m.

**Motivation in Education**

Wed

4:30 p.m. - 7:30 p.m.

**Experimental Designs and Analysis in Educational Research**

W2

4:30 p.m. - 7:30 p.m.

**In Person Learning**

This course is not eligible for Credit/D/Fail grading.

**Social and Emotional Development in Education**

A

1:00 p.m. - 4:00 p.m.

**Experimental Designs and Analysis in Educational Research**

W2

4:30 p.m. - 7:30 p.m.

**Design and Analysis of Research with Small Samples and Single Subjects**

W2

4:30 p.m. - 7:30 p.m.

**In Person Learning**

This course is not eligible for Credit/D/Fail grading.

**Social and Emotional Learning**

Mon

4:30 p.m. - 7:30 p.m.

**In Person Learning**

This course is not eligible for Credit/D/Fail grading.

**In Person Learning**

In Person Learning

**In Person Learning**

In Person Learning

**Online Learning**

This course is not eligible for Credit/D/Fail grading.

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**Online Learning**

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<td>In Person Learning</td>
<td>Field Experiences</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>EPSE_V 599-A_073</td>
<td>In Person Learning</td>
<td>Master's Thesis</td>
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<td>EPSE_V 608-A_074</td>
<td>In Person Learning</td>
<td>Advanced Topics in Human Development, Learning, and Culture</td>
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<td>EPSE_V 606-075</td>
<td>In Person Learning</td>
<td>College and University Teaching</td>
<td>W1</td>
<td>Pass/Fail</td>
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<td>Online Learning</td>
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<tr>
<td>EPSE_V 611-A_074</td>
<td>In Person Learning</td>
<td>Professional Seminar in School and Applied Child Psychology</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 633-074</td>
<td>In Person Learning</td>
<td>Community-Based Services</td>
<td>W1</td>
<td>Pass/Fail</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 635-A_074</td>
<td>In Person Learning</td>
<td>Special Topics in Advanced Intervention in School and Applied Child Psychology</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>Admission to the SAP P.D. program required. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EPSE 561, EPSE 562, EPSE 567.</td>
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<td>Doctoral Practicum in School and Applied Child Psychology</td>
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<td>EPSE_V 661-D_076</td>
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<td>Doctoral Practicum in School and Applied Child Psychology</td>
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<td>Doctoral Practicum in School and Applied Child Psychology</td>
<td>W1-2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 681-A_075</td>
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<td>Advanced Topics in Measurement, Evaluation, and Research</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EPSE_V 683-075</td>
<td>In Person Learning</td>
<td>Hierarchical Linear Modelling, Growth and Change</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 684-A_077</td>
<td>In Person Learning</td>
<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 685-A_078</td>
<td>In Person Learning</td>
<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 686-A_079</td>
<td>In Person Learning</td>
<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 687-B_075</td>
<td>In Person Learning</td>
<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
<td>W1-2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 687-C_076</td>
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<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
<td>W1-2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 688-A_077</td>
<td>In Person Learning</td>
<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
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<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 689-A_075</td>
<td>In Person Learning</td>
<td>Pre-Doctoral Internship in School and Applied Child Psychology</td>
<td>W1-2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EPSE_V 690-074</td>
<td>In Person Learning</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EPSE_V 692-075</td>
<td>In Person Learning</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 693-075</td>
<td>In Person Learning</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>ETEC_V 500-06A</td>
<td>Online Learning</td>
<td>Research Methodology in Education</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>Online Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the SACP Ph.D. program required. 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.

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.

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.

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.

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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.
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<th>Course Code</th>
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<td>Research Methodology in Education</td>
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<td>Research Methodology in Education</td>
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<td>ETEC_V 510-64A</td>
<td>Design of Technology-Supported Learning Environments</td>
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<td>ETEC_V 510-65A</td>
<td>Design of Technology-Supported Learning Environments</td>
<td>W2</td>
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<td>Design of Technology-Supported Learning Environments</td>
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<td>Design of Technology-Supported Learning Environments</td>
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<td>ETEC_V 511-64A</td>
<td>New Foundations of Educational Technology</td>
<td>W1</td>
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<td>New Foundations of Educational Technology</td>
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<td>Applications of Learning Theories to the Analysis of Instructional Settings</td>
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<td>Planning and Managing eLearning</td>
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<td>Planning and Managing eLearning</td>
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<td>ETEC_V 521-64A</td>
<td>Indigeneity, Technology, and Education</td>
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<td>Indigeneity, Technology, and Education</td>
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<td>ETEC_V 522-64A</td>
<td>Ventures in Learning Technology</td>
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<td>Mobile &amp; Open Education</td>
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Table notes:
- Courses are not eligible for Credit/D/Fail grading.
- Online Learning is always arranged.
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<td>Learning Technologies: Selection, Design, and Application</td>
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<td>Learning Technologies: Selection, Design, and Application</td>
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<td>ETEC_V</td>
<td>Constructivist Strategies for eLearning</td>
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<td>Constructivist Strategies for eLearning</td>
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<td>ETEC_V</td>
<td>Curriculum Issues in Cultural and New Media Studies</td>
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<td>Curriculum Issues in Cultural and New Media Studies</td>
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<td>Technology in Arts and Humanities Classrooms</td>
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<td>Text Technologies: The Changing Spaces of Reading and Writing</td>
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<td>Culture and Communication in Virtual Learning Environments</td>
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<td>ETEC_V</td>
<td>Culture and Communication in Virtual Learning Environments</td>
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<td>ETEC_V</td>
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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.

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<td>FCOR_V 510-001</td>
<td>FCOR_V 510-002</td>
<td>Professional Communication</td>
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<td>FCOR_V 511-001</td>
<td>FCOR_V 511-002</td>
<td>Working with Diverse Knowledge Systems in Sustainable Natural Resource Management</td>
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<td>FCOR_V 512-001</td>
<td>FCOR_V 512-002</td>
<td>Project Proposal Development and Proof of Concept</td>
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<td>FCOR_V 230-001</td>
<td>FCOR_V 230-002</td>
<td>Forest Research and Planning</td>
<td>W1</td>
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<tr>
<td>EPR_V 101-001</td>
<td>EPR_V 101-002</td>
<td>Introduction to the History of Film Production</td>
<td>W1</td>
<td>The history of film and film production by decade with a strong emphasis on filmmakers and advances in production technology.</td>
<td>In Person Learning</td>
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<tr>
<td>EPR_V 120-001</td>
<td>EPR_V 120-002</td>
<td>Introduction to Screen Acting</td>
<td>W2</td>
<td>Fundamental techniques used to create emotionally engaged and narratively effective performances for film and digital media.</td>
<td>In Person Learning</td>
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<tr>
<td>EPR_V 125-001</td>
<td>EPR_V 125-002</td>
<td>Introduction to Film and Media Production</td>
<td>W1</td>
<td>A hands-on introduction to Film and Multi/Now Media production; focusing on fundamental techniques for creating effective presentations.</td>
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<td>EPR_V 125-003</td>
<td>EPR_V 125-004</td>
<td>Introduction to Film and Media Production</td>
<td>W2</td>
<td>A hands-on introduction to Film and Multi/Now Media production; focusing on fundamental techniques for creating effective presentations.</td>
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<tr>
<td>EPR_V 230-001</td>
<td>EPR_V 230-002</td>
<td>Introduction to Motion Picture Directing</td>
<td>W1</td>
<td>The role and methods of the motion picture director.</td>
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<tr>
<td>EPR_V 235-A_001</td>
<td>EPR_V 235-B_001</td>
<td>Film and Media Production</td>
<td>W1</td>
<td>Camera operation, lighting, sounds, and editing for film and media production.</td>
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<tr>
<td>EPR_V 235-B_001</td>
<td>EPR_V 235-C_001</td>
<td>Film and Media Production</td>
<td>W2</td>
<td>Camera operation, lighting, sounds, and editing for film and media production.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</table>
Production Planning and Professional Practices

Directed Studies: On-Campus Research

Directed Studies: Off-Campus Research

Film and Media Production II

Cinematography and Lighting I

Motion Picture Sound

Documentary Concept Development, Essential Production Techniques, and Marketing

Post-Production Techniques I

Advanced cinematography and lighting for 16mm film and digital media.

Advanced instruction in motion picture and sound editing practice. Open only to students in the Film Production BFA Program. Credit will be granted for only one of FIPR 337, FILM 337. Equivalency: FILM 337

Intermediate film and media production. Open only to students in the Film Production BFA Program. Students who have not already completed FIPR 331, FILM 331 must complete them at the same time as FIPR 333. Prerequisite: FIPR 331. Corequisite: All of FIPR 331, FIPR 338. Equivalency: FILM 333

Advanced film and media production. Prerequisite: One of FIPR 333, FILM 333. Equivalency: FILM 333

Advanced film production, including interdisciplinary projects. Open only to students in the Film Production BFA Program. Prerequisite: FIPR 331. Corequisite: All of FIPR 331, FIPR 338. Equivalency: FILM 333

Intermediate film and media production. Open only to students in the Film Production BFA Program. Credit will be granted for only one of FIPR 337, FILM 337. Equivalency: FILM 337

Intermediate film and media production. Open only to students in the Film Production BFA Program. Credit will be granted for only one of FIPR 337, FILM 337. Equivalency: FILM 337

Intermediate film and media production. Open only to students in the Film Production BFA Program. Credit will be granted for only one of FIPR 337, FILM 337. Equivalency: FILM 337

On-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.

Intermediate film and media production. Open only to students in the Film Production BFA Program. Credit will be granted for only one of FIPR 337, FILM 337. Equivalency: FILM 337

On-campus film production field research. Based on film project work on campus productions. Restricted to Film Production students except with permission. Contact department.

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<td>FIPR_V 534-B</td>
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<td>In Person Learning</td>
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<td>Directed Studies in Oceans and Fisheries</td>
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<td>Directed Studies in Oceans and Fisheries</td>
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<td>W1-2</td>
<td>Master's Thesis</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FISH_V 549-A_101</td>
<td>A_101</td>
<td>W1</td>
<td>Master's Thesis</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FISH_V 549-A_102</td>
<td>A_102</td>
<td>W2</td>
<td>Master's Thesis</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FISH_V 549-B_101</td>
<td>A_201</td>
<td>W2</td>
<td>Master's Thesis</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FISH_V 549-B_102</td>
<td>B_100</td>
<td>W1</td>
<td>Master's Thesis</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FISH_V 549-B_201</td>
<td>B_201</td>
<td>W2</td>
<td>Master's Thesis</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FISH_V 549-B_202</td>
<td>A_100</td>
<td>W1-2</td>
<td>Doctoral Dissertation</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FISH_V 549-B_301</td>
<td>A_101</td>
<td>W1</td>
<td>Doctoral Dissertation</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FISH_V 549-B_302</td>
<td>A_102</td>
<td>W2</td>
<td>Doctoral Dissertation</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Schedule</td>
<td>Location</td>
<td>Prerequisites</td>
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<tr>
<td>FNEL_V 314-202</td>
<td>Relationship Development</td>
<td>2</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Minor Wed.</td>
</tr>
<tr>
<td>FNEL_V 316-101</td>
<td>Human Sexuality</td>
<td>2</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>FNEL_V 316-102</td>
<td>Human Sexuality</td>
<td>2</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Th, Thu</td>
</tr>
<tr>
<td>FNEL_V 316-103</td>
<td>Human Sexuality</td>
<td>2</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>FNEL_V 316-104</td>
<td>Human Sexuality</td>
<td>2</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>FNEL_V 316-202</td>
<td>Human Sexuality</td>
<td>2</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>FNEL_V 316-401</td>
<td>Introduction to a Salish Language I</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>FNEL_V 316-402</td>
<td>Introduction to a Salish Language II</td>
<td>1</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>FNEL_V 282-101</td>
<td>Structures of Endangered Languages: Conservation and Revitalization</td>
<td>2</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>FNEL_V 288-001</td>
<td>Technologies for Endangered Language Documentation and Revitalization</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
</tr>
</tbody>
</table>
Supervised by a faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.

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.

Application of research skills and methodologies in the design and implementation of a research project relevant to endangered language conservation and revitalization. Project constructed in collaboration with a First Nations community, guided by community-based ethical protocols. Restricted to Undergraduate Students. Prerequisite 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 288. Corequisites can be taken either alongside or prior to FNEL 482.

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 150, CHEM 151 and one of BIOS 11, ATPH 12, ROA 12, ROB 111. FHU 160 and 161 together are credit-excluded with BIOS 153 and 155.

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: One of CHEM 11, CHEM 12, CHEM 150, CHEM 151 and one of BIOS 11, ATPH 12, ROA 12, ROB 111. FHU 160 and 161 together are credit-excluded with BIOS 153 and 155.

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: One of CHEM 11, CHEM 12, CHEM 150, CHEM 151 and one of BIOS 11, ATPH 12, ROA 12, ROB 111. FHU 160 and 161 together are credit-excluded with BIOS 153 and 155.

Chemical and physical properties of foods; issues pertaining to safety, nutrition 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.

Chemical and physical properties of foods; issues pertaining to safety, nutrition 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.

Chemical and physical properties of foods; issues pertaining to safety, nutrition 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.

Chemical and physical properties of foods; issues pertaining to safety, nutrition 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.

Chemical and physical properties of foods; issues pertaining to safety, nutrition 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.

Chemical and physical properties of foods; issues pertaining to safety, nutrition 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.

Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisites: One of PHYS 101, PHYS 106, PHYS 107, PHYS 115, PHYS 155, PHYS 157, PHYS 158, PHYS 170.

Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisites: One of PHYS 101, PHYS 106, PHYS 107, PHYS 115, PHYS 155, PHYS 157, PHYS 158, PHYS 170.

Fundamental concepts and principles of human nutrition applied to current nutrition issues. Prerequisite: Either (a) all of FHU 160, FHU 161 or (b) one of BIOS 111, BIOS 112, BIOS 113, BIOS 115 or (c) all of FHU 111, FHU 112, At least second year standing required.

Fundamental concepts and principles of human nutrition applied to current nutrition issues. Prerequisite: Either (a) all of FHU 160, FHU 161 or (b) one of BIOS 111, BIOS 112, BIOS 113, BIOS 115 or (c) all of FHU 111, FHU 112, At least second year standing required.

Fundamental concepts and principles of human nutrition applied to current nutrition issues. Prerequisite: Either (a) all of FHU 160, FHU 161 or (b) one of BIOS 111, BIOS 112, BIOS 113, BIOS 115 or (c) all of FHU 111, FHU 112, At least second year standing required.

Fundamental concepts and principles of human nutrition applied to current nutrition issues. Prerequisite: Either (a) all of FHU 160, FHU 161 or (b) one of BIOS 111, BIOS 112, BIOS 113, BIOS 115 or (c) all of FHU 111, FHU 112, At least second year standing required.

Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisites: One of PHYS 101, PHYS 106, PHYS 107, PHYS 115, PHYS 155, PHYS 157, PHYS 158, PHYS 170.

Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisites: One of PHYS 101, PHYS 106, PHYS 107, PHYS 115, PHYS 155, PHYS 157, PHYS 158, PHYS 170.
Introduction to Wine Science I

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.

Food Analysis

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 201 or (b) CHEM 205 recommended.

In Person Learning

We 11:50 a.m. - 12:00 p.m.

Food Product Development

Introduction to and application of concepts involved in food product formulation and development. Prerequisite: One of LFS 252, BIOS 100, EPSE 482, FRT 231, STAT 200. (3-0-1) recommended.

In Person Learning

W 10:30 a.m. - 12:00 p.m.

Food Processing

Preservation of tissue and fluid food systems by selected physical and chemical treatments with emphasis on product process interactions. Prerequisite: One of BIOS 12, BIOS 100, BIOS 101, BIOS 106, BIOS 117, BIOS 200, BIOS 204, PHPS 170.

In Person Learning

Th 2:00 p.m. - 5:00 p.m.

Food Processing

Preservation of tissue and fluid food systems by selected physical and chemical treatments with emphasis on product process interactions. Prerequisite: One of BIOS 12, BIOS 100, BIOS 101, BIOS 106, BIOS 117, BIOS 200, BIOS 204, PHPS 170.

In Person Learning

W 4:00 p.m. - 5:00 p.m.

Food Microbiology

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 enumerating microorganisms in food production environments. (3-0-0) Prerequisite: BID 102. Third-year standing.

Multi-access Learning

Mon - Wed Fri

3:00 p.m. - 11:00 p.m.
FNH_V 330-01L  330  L2F  Introduction to Wine Science I  W2  Principles of viticulture, enology, and wine microbiology and chemistry; marketing, regulation and classification of wine from selected regions of the world; social, economic and health aspects of wine consumption; wine appreciation. Prerequisite: Third-year standing or higher.

FNH_V 330-01G  330  L2G  Introduction to Wine Science I  W2  Principles of viticulture, enology, and wine microbiology and chemistry; marketing, regulation and classification of wine from selected regions of the world; social, economic and health aspects of wine consumption; wine appreciation. Prerequisite: Third-year standing or higher.

FNH_V 330-01H  330  L2H  Introduction to Wine Science I  W2  Principles of viticulture, enology, and wine microbiology and chemistry; marketing, regulation and classification of wine from selected regions of the world; social, economic and health aspects of wine consumption; wine appreciation. Prerequisite: Third-year standing or higher.

FNH_V 335-001  335  001  Introduction to Wine Science II  W2  Review of diverse styles of wine with consideration of classic wine-producing areas. Concepts in wine microbiology/chemistry; overview of steps in grape processing for diverse wine styles. Comparison of regulations for Canadian VQA systems with international systems. Wine sensory analysis. [3-0-0] Prerequisite: FNH 330. and third-year standing or higher.

FNH_V 335-01I  335  L01  Introduction to Wine Science II  W2  Review of diverse styles of wine with consideration of classic wine-producing areas. Concepts in wine microbiology/chemistry; overview of steps in grape processing for diverse wine styles. Comparison of regulations for Canadian VQA systems with international systems. Wine sensory analysis. [3-0-0] Prerequisite: FNH 330. and third-year standing or higher.

FNH_V 335-01L  335  L05  Introduction to Wine Science II  W2  Review of diverse styles of wine with consideration of classic wine-producing areas. Concepts in wine microbiology/chemistry; overview of steps in grape processing for diverse wine styles. Comparison of regulations for Canadian VQA systems with international systems. Wine sensory analysis. [3-0-0] Prerequisite: FNH 330. and third-year standing or higher.

FNH_V 335-01P  335  PR1  Introduction to Wine Science II  W2  Review of diverse styles of wine with consideration of classic wine-producing areas. Concepts in wine microbiology/chemistry; overview of steps in grape processing for diverse wine styles. Comparison of regulations for Canadian VQA systems with international systems. Wine sensory analysis. [3-0-0] Prerequisite: FNH 330. and third-year standing or higher.

FNH_V 340-001  340  001  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)].

FNH_V 340-002  340  002  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)].

FNH_V 340-01S  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)].

FNH_V 340-01U  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)].

FNH_V 342-001  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.

FNH_V 345-201  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 200].

FNH_V 350-001  350  001  Fundamentals of Nutrition  W2  Fundamentals of energy and macronutrient metabolism. [3-0-0] Prerequisite: FNH 200 and use of [BIO 201, BIOL 202].

FNH_V 350-002  350  002  Fundamentals of Nutrition  W2  Fundamentals of energy and macronutrient metabolism. [3-0-0] Prerequisite: FNH 200 and use of [BIO 201, BIOL 202].

FNH_V 351-001  351  001  Vitamins, Minerals, and Health  W1  Vitamins 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

FNH_V 351-002  351  002  Vitamins, Minerals, and Health  W2  Vitamins and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIOL 201, BIOC 202. "

FNH_V 351-003  351  H01  Vitamins, Minerals, and Health  W1  Vitamins and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIO2 201, BIOC 202. "

FNH_V 351-004  351  H02  Vitamins, Minerals, and Health  W2  Vitamins and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIO2 201, BIOC 202. "

FNH_V 355-001  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. [1.5-3-0] Online Learning

FNH_V 355-002  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. [1.5-3-0] Online Learning

FNH_V 370-001  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.

FNH_V 371-002  371  002  Human Nutrition Over The Life Span  W2  Nutritional requirements and dietary patterns of healthy individuals throughout the life span. [1.5-3-0] Prerequisite: FNH 250.
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.

**FNH 400-001**
400 001 Professional Dietetic Practice I
W1 In Person Learning Fri 1:00 p.m. - 4:30 p.m.

**FNH 408-001**
408 001 Research Methods in Human Nutrition
W1 Process of research: principles and processes in utilizing research. Restricted to students in regions in the FNH program. Prerequisite: FNH 250 and either (a) LFS 252 or (b) GEOL 415 or (c) SPE 402 or (d) FRST 231 or (e) STAT 324. In Person Learning Fri 4:00 p.m. - 5:30 p.m.

**FNH 408-002**
408 002 Research Methods in Human Nutrition
W1 Process of research: principles and processes in utilizing research. Restricted to students in regions in the FNH program. Prerequisite: FNH 250 and either (a) LFS 252 or (b) GEOL 415 or (c) SPE 402 or (d) FRST 231 or (e) STAT 324. Online Learning Mon 4:00 p.m. - 5:30 p.m.

**FNH 401-001**
401 001 Advances in Plant and Cell-Based Foods
W1 Examination of yeast, egg, fish, and dairy analogues made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Evolution of molecular designs 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 401-002**
401 002 Advances in Plant and Cell-Based Foods
W1 Examination of yeast, egg, fish, and dairy analogues made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Evolution of molecular designs 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

**FNH 402-001**
402 001 Functional Foods
W2 Functional food concepts related to efficacy and safety, examples of functional component-disease relationships; natural health products; approval of functional food and health claims; the impact of social issues in support of efficacy for health claims; market determinants of functional foods. Prerequisite: BOK 301 or equivalent; third-year standing Equivalency: FNH 411. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

**FNH 402-002**
402 002 Functional Foods
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, BOK 301, or equivalent background in statistics. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

**FNH 403-001**
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, BOK 301, or equivalent background in statistics. In Person Learning Wed 9:00 a.m. - 10:00 a.m.

**FNH 403-002**
403 002 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, BOK 301, or equivalent background in statistics. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

**FNH 403-003**
403 003 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, BOK 301, or equivalent background in statistics. In Person Learning Wed 12:00 p.m. - 1:00 p.m.

**FNH 403-004**
403 004 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, BOK 301, or equivalent background in statistics. In Person Learning Wed 9:00 a.m. - 10:00 a.m.

**FNH 404-001**
404 001 Food Safety and Quality Management
W2 Food production plant sanitation, environmental monitoring, global food safety standards, and food plant internal audits. Prerequisite: FNH 401. In Person Learning Wed 1:00 p.m. - 3:00 p.m.

**FNH 405-001**
405 001 Microbiology of Food and Beverage Fermentation
W1 Fermentation methods, the factors and environment of non-alcoholic fermented foods and alcoholic fermented beverages (beer, cider, sake). Prerequisite: One of MICB 211, MICB 212, BOK 201, BOK 202, MICB 214. Third-year standing. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

**FNH 413-001**
413 001 Food Safety
W1 Microbial and chemical factors that undermine public health challenges in the food supply chain; prevalence and role of organisms which cause foodborne disease; approaches and technologies for improvement of food safety. Prerequisite: One of MICB 211, MICB 212, CHEM 232, FNH 213. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

**FNH 413-002**
413 002 Food Safety
W1 Microbial and chemical factors that undermine public health challenges in the food supply chain; prevalence and role of organisms which cause foodborne disease; approaches and technologies for improvement of food safety. Prerequisite: One of MICB 211, MICB 212, CHEM 232, FNH 213. In Person Learning Arranged

**FNH 414-001**
414 001 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 300, FNH 313. In Person Learning Mon 1:00 p.m. - 2:00 p.m.

**FNH 415-001**
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 HCN 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 419-001**
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

**FNH 425-001**
425 001 Food Science Laboratory III
W1-2 Integrated course designed to illustrate principles of research and product development in the food industry. [1-3-1] Prerequisite: All of FNH 250, FNH 325. In Person Learning Fri 1:00 p.m. - 3:00 p.m.

**FNH 440-001**
440 001 Food Service Systems Management
W1 Management responsibilities in quantity food production with emphasis on menu planning, purchasing and service. Includes planning and managing 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. Prerequisite: FNH 440. In Person Learning Mon 1:00 p.m. - 2:30 p.m.

**FNH 440-002**
440 002 Food Service Systems Management
W1 Management responsibilities in quantity food production with emphasis on menu planning, purchasing and service. Includes planning and managing 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. Prerequisite: FNH 440. In Person Learning Mon 3:00 p.m. - 4:30 p.m.
<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Schedule</th>
<th>Instructor</th>
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<tr>
<td>FNH-V-451-002</td>
<td>Nutrient Metabolism and Implications for Health</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>FNH-V-451-003</td>
<td>Applied International Nutrition</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>FNH-V-470-001</td>
<td>Nutrition Care II</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>9:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>FNH-V-473-001</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>FNH-V-477-001</td>
<td>Nutrition and Disease Prevention</td>
<td>In Person Learning</td>
<td>Tue Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>FNH-V-480-001</td>
<td>Professional Dietetic Practice II</td>
<td>Arranged</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>FNH-V-482-001</td>
<td>Dietetics Practice Education Placement I</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Thu Fri</td>
<td>9:00 a.m. - 5:00 p.m.</td>
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<tr>
<td>FNH-V-482-002</td>
<td>Dietetics Practice Education Placement II</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Thu Fri</td>
<td>9:00 a.m. - 5:00 p.m.</td>
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<td>FNH-V-482-003</td>
<td>Dietetics Practice Education Placement III</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Thu Fri</td>
<td>9:00 a.m. - 5:00 p.m.</td>
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<td>FNH-V-482-004</td>
<td>Dietetics Practice Education Placement IV</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Thu Fri</td>
<td>9:00 a.m. - 5:00 p.m.</td>
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<tr>
<td>FNH-V-490-001</td>
<td>Advanced Topics in Food, Nutrition, and Health</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Thu Fri</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>FNH-V-490-002</td>
<td>Advanced Topics in Food, Nutrition, and Health</td>
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<td>FNH-V-490-003</td>
<td>Directed Studies in Food, Nutrition and Health</td>
<td>In Person Learning</td>
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<td>FNH-V-490-004</td>
<td>Directed Studies in Food, Nutrition and Health</td>
<td>In Person Learning</td>
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<td>FNH-V-490-005</td>
<td>Directed Studies in Food, Nutrition and Health</td>
<td>In Person Learning</td>
<td>W3</td>
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<td>FNH-V-490-006</td>
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<td>FNH-V-490-007</td>
<td>Directed Studies in Food, Nutrition and Health</td>
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<td>FNH-V-490-008</td>
<td>Directed Studies in Food, Nutrition and Health</td>
<td>In Person Learning</td>
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Undergraduate Thesis
In Person Learning
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. Credit will be granted for only one of FNSP 400, FNIS 400, or FNH 400. Restricted to Undergraduate Students.

Indigenous Foundations
FNIS_V 456-101
101
A
A_001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: Approval of a program advisor; consult before the end of classes in third year.

Indigenous Politics and Self-Determination
FNIS_V 210-001
210
001
Undergraduate Thesis
In Person Learning
The historical, cultural, political, economic and social 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 FNSP 101, FNSP 102, or FNH 201. Restricted to Undergraduate Students.

Representation and Indigenous Cultural Politics
FNIS_V 400-001
300
001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of FNIS 310, FNIS 320 or (b) all of FNSP 220. Restricted to Undergraduate Students. Credit will be granted for only one of FNSP 300, FNIS 300 or FNSP 320. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.

Critical Indigenous Theory Seminar
FNIS_V 310-001
310
001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) one of FNIS 210, FNIS 220 or (b) one of FNH 499, FNSP 499.

Critical Indigenous Methodologies and Ethics
FNIS_V 320-001
320
001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) FNIS 100 or (b) FNSP 100. Restricted to Undergraduate Students. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.

Practicum/Advanced Research Seminar
FNIS_V 480-001
400
001
Undergraduate Thesis
In Person Learning
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 FNSP 480, FNH 480, or FNIS 480. Restricted to Majors in First Nations and Indigenous Studies. This course is not eligible for Credit/D/Fail grading.

Practicum/Advanced Research Seminar
FNIS_V 480-001
400
001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) one of FNIS 210, FNIS 220 or (b) one of FNSP 210, FNSP 220. Students must pass FNIS 480 or FNSP 480 with a B- or higher and request program approval. Equivalency: FNSP 480.

Practicum/Advanced Research Seminar
FNIS_V 480-001
400
001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) one of FNIS 210 or FNSP 210. Restricted to Undergraduate Students. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. This course is not eligible for Credit/D/Fail grading.

Special Topics
FNIS_V 401-C-001
401
C
C_001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNSP 100, or FNSP 200. Credit will be granted for only one of FNIS 210, FNIS 220, or FNSP 210. This course is not eligible for Credit/D/Fail grading.

Special Topics
FNIS_V 401-C-001
401
C
C_001
Undergraduate Thesis
In Person Learning
Topics will vary from year to year. Consult the departmental website: http://fnsp.arts.ubc.ca. Restricted to Undergraduate Students. Prerequisite: Use of one of FNIS 100, FNSP 100, or FNSP 200.

Special Topics
FNIS_V 401-R-101
401
R
R_101
Undergraduate Thesis
In Person Learning
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.

Indigenous New Media
FNIS_V 454-001
454
001
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNSP 200, FNIS 210, FNSP 220, FNIS 220, or FNSP 220. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.

Indigenous Two-Spirits and Queer Studies
FNIS_V 456-101
456
101
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNIS 210, FNSP 200, FNIS 220, FNSP 220, or FNSP 220. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. Restricted to Undergraduate Students.

Special Topics
FNIS_V 401-G_301
401
G
G_301
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNIS 210, FNSP 200, FNIS 220, FNSP 220, or FNSP 220. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. Restricted to Undergraduate Students.

Special Topics
FNIS_V 401-G_301
401
G
G_301
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNIS 210, FNSP 200, FNIS 220, FNSP 220, or FNSP 220. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. Restricted to Undergraduate Students.

Special Topics
FNIS_V 401-G_301
401
G
G_301
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNIS 210, FNSP 200, FNIS 220, FNSP 220, or FNSP 220. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. Restricted to Undergraduate Students.

Special Topics
FNIS_V 401-G_301
401
G
G_301
Undergraduate Thesis
In Person Learning
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FNIS 100, FNIS 210, FNSP 200, FNIS 220, FNSP 220, or FNSP 220. Credit will be granted for only one of FNSP 200, FNIS 210, or FNSP 220. Restricted to Undergraduate Students.
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<th>Course Code</th>
<th>Course Title</th>
<th>Offered</th>
<th>Time</th>
<th>Credits</th>
<th>Grading</th>
<th>Learning Mode</th>
<th>Days</th>
<th>Notes</th>
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<td>FOOD_V 501-R_101</td>
<td>Special Topics</td>
<td>W2</td>
<td>Tue 2:00 p.m. - 5:00 p.m.</td>
<td>2.00</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Tue</td>
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<td>Course Code</td>
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<td>Mode</td>
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<td>FOOD_V 529-001</td>
<td>Laboratory Methods in Sensory Evaluation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>12:30 p.m. - 2:30 p.m.</td>
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<td>FOOD_V 529-002</td>
<td>Laboratory Methods in Sensory Evaluation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<td>FOOD_V 530-A_001</td>
<td>Directed Studies</td>
<td>W1</td>
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<td>FOOD_V 530-A_002</td>
<td>Directed Studies</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>FOOD_V 530-A_003</td>
<td>Directed Studies</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>FOOD_V 530-B_001</td>
<td>Directed Studies</td>
<td>W1</td>
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<td>FOOD_V 530-B_002</td>
<td>Directed Studies</td>
<td>W2</td>
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<td>FOOD_V 530-B_003</td>
<td>Directed Studies</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>FOOD_V 530-D_001</td>
<td>Directed Studies</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>FOOD_V 549-A_001</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>FOOD_V 549-A_002</td>
<td>Master's Thesis</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>FOOD_V 549-A_003</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>FOOD_V 600-001</td>
<td>Ph.D. Seminar</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>FOOD_V 600-002</td>
<td>Ph.D. Seminar</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>FOOD_V 600-003</td>
<td>Ph.D. Seminar</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>FOOD_V 649-001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>FOOD_V 649-002</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>FOOD_V 649-003</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>FOPE_V 500-001</td>
<td>Sustainable Forest Management in a Changing World</td>
<td>W1</td>
<td>Origins of sustainable forest management; criteria and indicators of sustainable forest management are discussed.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>FOPE_V 500-002</td>
<td>Sustainable Forest Management in a Changing World</td>
<td>W2</td>
<td>Origins of sustainable forest management; criteria and indicators of sustainable forest management are discussed.</td>
<td>Online Learning</td>
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<td>Sustainable Forest Management in a Changing World</td>
<td>W2</td>
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<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>FOPE_V 501-001</td>
<td>Geomatics in Forestry: Data Collection and Management</td>
<td>W1</td>
<td>Fundamentals concepts of spatial technologies and geospatial analysis. This course is not eligible for Credit/D/Fail grading.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>FOPE_V 502-001</td>
<td>Climate Modelling and Forest Applications</td>
<td>W2</td>
<td>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.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>FOPE_V 504-001</td>
<td>Structure and Composition of Tropical Forest Ecosystems</td>
<td>W1</td>
<td>Ecological characteristics of tropical forests including their structure and composition. This course is not eligible for Credit/D/Fail grading.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>FOPE_V 505-001</td>
<td>Ecological Processes in Tropical Forests</td>
<td>W2</td>
<td>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.</td>
<td>Online Learning</td>
<td>Arranged</td>
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</table>
FOPE_V 507-101  FOPE_V 507  101  International Forestry Issues, Institutions, and Multilateral Agreements  W1  Major contemporary global natural resource management issues emphasis on forestry. This course is not eligible for Credit/D/Fail grading.  Online Learning  Arranged  Arranged

FOPE_V 508-201  FOPE_V 508  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 culturing 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  Foundations of forest business enterprise (FBE), 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 369-101  FOPR_V 369  101  Introduction to Forest Operations  W1  Basic geomatics, surveying and forest operations. [2-4-0] Prerequisite: One of ECON 101, FRST 101. Corequisite: FRST 318.  In Person Learning  Thu  8:00 a.m. - 12:00 p.m.

FOPR_V 369-111  FOPR_V 369  111  Introduction to Forest Operations  W1  Basic geomatics, surveying and forest operations. [2-4-0] Prerequisite: One of ECON 101, FRST 101. Corequisite: FRST 318.  In Person Learning  Thu  1:00 p.m. - 3:00 p.m.

FRE_V 362-201  FRE_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. [2-0-1] Prerequisite: One of ECON 101, FRST 101. Corequisite: FRST 318.  Online Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

FRE_V 362-101  FRE_V 362  101  Harvesting Systems and Forest Access  W2  The mechanics and productivity of a broad range of forest harvesting systems combined with topics on forest access. [2-0-1] Prerequisite: One of ECON 101, FRST 101. Corequisite: FRST 318.  In Person Learning  Arranged  Arranged

FOPR_V 380-101  FOPR_V 380  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 hydrology and hydraulic design procedure for stream crossings. [0-2] Corequisite: FRST 264.  In Person Learning  Mon Wed Fri  10:00 a.m. - 11:00 a.m.

FOPR_V 380-111  FOPR_V 380  111  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 hydrology and hydraulic design procedure for stream crossings. [0-2] Corequisite: FRST 264.  In Person Learning  Thu  3:00 p.m. - 5:00 p.m.

FOPR_V 466-301  FOPR_V 466  301  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. [2-1-0] Prerequisite: FOPR 362.  In Person Learning  Tue  8:00 a.m. - 10:00 a.m.

FOPR_V 466-111  FOPR_V 466  111  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. [2-1-0] Prerequisite: FOPR 362.  In Person Learning  Tue  1:00 p.m. - 3:00 p.m.

FRE_V 290-001  FRE_V 290  001  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 103.  In Person Learning  Mon Wed Fri  10:00 a.m. - 11:00 a.m.

FRE_V 290-101  FRE_V 290  101  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 103.  In Person Learning  Tue  1:00 p.m. - 2:00 p.m.

FRE_V 310-201  FRE_V 310  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 on an agri-food business, domestically and internationally. [3-0-1] Prerequisite: One of ECON 101, ECON 103.  In Person Learning  Mon Wed Fri  8:00 a.m. - 10:00 a.m.

FRE_V 310-211  FRE_V 310  211  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 on an agri-food business, domestically and internationally. [3-0-1] Prerequisite: One of ECON 101, ECON 103.  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 103.  In Person Learning  Wed  3:00 p.m. - 5:00 p.m.

FRE_V 326-001  FRE_V 326  001  Empirical Methods for Food and Resource Economics  W2  Introduction to empirical methods with applications for problems in food and resource economics, standard linear regression 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 LIS 253, STAT 200, BUS 305.  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 courses 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 food markets, growth, and the environment. Prerequisite: One of ECON 101, ECON 103.  In Person Learning  Mon Wed Fri  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; dynamics of efficiency; economic applications include groundwater, marine, forest, land, water, and biodiversity. [3-0-1] Prerequisite: One of ECON 101, ECON 103. Equivalency: ECON470  In Person Learning  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. [3-1-0] Prerequisite: One of ECON 101, ECON 103 and one of LIS 253, BUS 305, FRST 261, STAT 200.  In Person Learning  Thu  4:00 p.m. - 5:30 p.m.

FRE_V 385-101  FRE_V 385  101  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. [3-1-0] Prerequisite: One of ECON 101, ECON 103 and one of LIS 253, BUS 305, FRST 261, STAT 200.  In Person Learning  Arranged  Arranged
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 304

In Person Learning

Mon Wed

2:00 p.m. - 3:30 p.m.

FRE V 394-010

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 304

In Person Learning

Mon Wed

2:00 p.m. - 3:30 p.m.

FRE V 420-001

FRE V 420

002

The Economics of International Trade and the Environment

W2

Market failure and 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 105

In Person Learning

W2

11:30 a.m. - 1:00 p.m.

FRE V 490-001

FRE V 490

001

Economics of Food Consumption

W2

Microeconomics of consumer decisions and public policy in food contexts; foodborne illness; economic causes and consequences of obesity; food taxes and prohibitions; information campaign and advertising; labeling; food waste and ethics. Prerequisite: One of ECON 101, ECON 105

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; econometric; counterfactual thinking, and applications to the economics of: natural resource conservation, species loss and extirpation, protected areas, international trade of wildlife products, and endangered species legislation. Prerequisite: One of LFS 252, STAT 200, BIO 300, ECON 104, COMM 295, ECON 301. Equivalency: COMM 304

In Person Learning

Tue Thu

10:30 a.m. - 12:00 p.m.

FRE V 474-D_002

FRE V 474

002

Causal Inference in the Economics of Natural Resource Conservation

W2

Estimating causal relationships in natural resource economics; applied data analysis; econometric; counterfactual thinking, and applications to the economics of: natural resource conservation, species loss and extirpation, protected areas, international trade of wildlife products, and endangered species legislation. Prerequisite: One of LFS 252, STAT 200, BIO 300, ECON 104, COMM 295, ECON 301. Equivalency: COMM 304

In Person Learning

W2

10:30 a.m. - 12:00 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 105

In Person Learning

Mon Wed

10:00 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 105

In Person Learning

Mon Wed

10:00 a.m. - 11:30 a.m.

FRE V 490-003

FRE V 490

003

Current Issues in Food and Resource Economics

W2

(3-0) Prerequisite: One of ECON 101, ECON 105

In Person Learning

Arranged

Arranged

FRE V 490-047

FRE V 490

101

Current Issues in Food and Resource Economics

W1

(3-0) Prerequisite: One of ECON 101, ECON 105

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 516-001

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

W1

10:00 a.m. - 11:30 a.m.

FRE V 517-002

FRE V 517

002

Future Trading in Agricultural Commodities

W2

This course is not eligible for Credit/D/Fail grading.

In Person Learning

Mon Wed

2:30 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. - 2:30 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

Mon Wed

3:00 p.m. - 5:00 p.m.

FRE V 521-0-002

FRE V 521

D_002

Topics in Food and Resource Economics

W2

This course is not eligible for Credit/D/Fail grading.

In Person Learning

Tue Thu

2:30 p.m. - 4:00 p.m.

Credit/D/Fail grading.

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.

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<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-118</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-119</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN 101-120</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN 101-121</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN 101-122</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-123</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-124</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-125</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-126</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-127</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-128</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-129</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-130</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-131</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-132</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-133</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-134</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN 101-135</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-136</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN 101-137</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-138</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-139</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-140</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN 101-141</td>
<td>1</td>
<td>Beginners' French I</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

**Notes:**
- 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 102.
- 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 102.
- 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 102.
- 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 102.
- 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 102.
- 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 102.
- 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 102.
- 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 102.
- Credit will be granted for only one of FREN 101 or FREN 102. Recommended pre-requisite: FREN 101.
- Continued improvement in listening, speaking, reading, and writing. This course is aligned with level A1 objectives of the CEFR. Credit will be granted for only one of FREN 101 or FREN 102. Recommended pre-requisite: FREN 101.
- Credit will be granted for only one of FREN 101 or FREN 102. Recommended pre-requisite: FREN 101.

**Equivalent:** FREN 101.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Credits</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
<th>Notes</th>
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<tr>
<td>FREN_V</td>
<td>201</td>
<td>1</td>
<td>Mon, Wed, Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>FREN_V</td>
<td>204</td>
<td>4</td>
<td>Mon, Wed, Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>FREN_V</td>
<td>301</td>
<td>2</td>
<td>Mon, Wed, Fri</td>
<td>7:30 a.m. - 8:30 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>7:30 a.m. - 8:30 a.m.</td>
</tr>
<tr>
<td>FREN_V</td>
<td>302</td>
<td>2</td>
<td>Mon, Wed, Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>FREN_V</td>
<td>401</td>
<td>2</td>
<td>Mon, Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>FREN_V</td>
<td>402</td>
<td>4</td>
<td>Mon, Wed, Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>FREN_V</td>
<td>403</td>
<td>2</td>
<td>Mon, Wed, Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>FREN_V</td>
<td>404</td>
<td>4</td>
<td>Mon, Wed, Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>FREN_V</td>
<td>405</td>
<td>2</td>
<td>Mon, Wed, Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
</tr>
</tbody>
</table>

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*

*Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 111, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 112.*
In Person Learning  Mon Wed Fri 12:00 p.m. - 1:00 p.m.

In Person Learning  Mon Wed Fri 1:00 p.m. - 2:00 p.m.

In Person Learning  Mon Wed Fri 2:00 p.m. - 3:00 p.m.

In Person Learning  Arranged

In Person Learning  Arranged

In Person Learning  Arranged

In Person Learning  Mon Wed Fri 10:00 a.m. - 11:00 a.m.

In Person Learning  Mon Wed Fri 11:00 a.m. - 12:00 p.m.

In Person Learning  Mon Wed Fri 12:00 p.m. - 1:00 p.m.

In Person Learning  Mon Wed Fri 1:00 p.m. - 2:00 p.m.

In Person Learning  Mon Wed Fri 2:00 p.m. - 3:00 p.m.

In Person Learning  Arranged

In Person Learning  Arranged

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Session</th>
<th>Meeting Times</th>
<th>Prerequisites / Notes</th>
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<tbody>
<tr>
<td>FREN 313</td>
<td>Advanced French Grammar</td>
<td>3.5</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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 223, FREN 302, or French Immersion 12, or assignment based on placement test.</td>
</tr>
<tr>
<td>FREN 317</td>
<td>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-requisites: FREN 313. Prerequisite: One of FREN 223, FREN 402.</td>
<td>2</td>
<td>W2</td>
<td>In Person Learning Thu Tue</td>
<td>3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>FREN 370</td>
<td>Introduction to French Linguistics</td>
<td>1.5</td>
<td>W1</td>
<td>In Person Learning Thu Tue</td>
<td>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 311, FREN 401.</td>
</tr>
<tr>
<td>FREN 401</td>
<td>Upper-Intermediate French I</td>
<td>2</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 302, or French Immersion 12, or assignment based on placement test.</td>
</tr>
<tr>
<td>FREN 402</td>
<td>Upper-Intermediate French II</td>
<td>2</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>A continuation of FREN 401. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 223, FREN 401, or assignment based on placement test.</td>
</tr>
<tr>
<td>FREN 404</td>
<td>Upper-Intermediate French I</td>
<td>2</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 302, or French Immersion 12, or assignment based on placement test.</td>
</tr>
<tr>
<td>FREN 405</td>
<td>Upper-Intermediate French I</td>
<td>2</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>A continuation of FREN 401. This course is aligned with level B2 objectives of the CEFR. Recommended pre-requisites: one of FREN 223, FREN 302, or French Immersion 12, or assignment based on placement test.</td>
</tr>
<tr>
<td>FREN 406</td>
<td>Upper-Intermediate French I</td>
<td>2</td>
<td>W2</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 302, or French Immersion 12, or assignment based on placement test.</td>
</tr>
<tr>
<td>FREN 411</td>
<td>The Modern and Contemporary French Novel</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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.</td>
</tr>
<tr>
<td>FREN 412</td>
<td>French Digital Culture</td>
<td>1</td>
<td>W2</td>
<td>In Person Learning Mon Fri</td>
<td>Study 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 311, FREN 401.</td>
</tr>
<tr>
<td>FREN 413</td>
<td>The Modern and Contemporary French Novel</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>A study of the different varieties (or dialects) of contemporary French and issues related to French-speaking communities around the world. Prerequisite: FREN 313 and one of FREN 311, FREN 225.</td>
</tr>
<tr>
<td>FREN 414</td>
<td>Contemporary French literature and culture</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 402.</td>
</tr>
<tr>
<td>FREN 415</td>
<td>Contemporary French literature and culture</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 402.</td>
</tr>
<tr>
<td>FREN 416</td>
<td>Contemporary French literature and culture</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 402.</td>
</tr>
<tr>
<td>FREN 417</td>
<td>Contemporary French literature and culture</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 402.</td>
</tr>
<tr>
<td>FREN 418</td>
<td>African and Caribbean Francophone Literatures</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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 223, FREN 402.</td>
</tr>
<tr>
<td>FREN 420</td>
<td>Selected Topics in French literature and Culture</td>
<td>1</td>
<td>W2</td>
<td>In Person Learning Mon Fri</td>
<td>Study of a literary or cultural topic that extends beyond one chronological period and/or place beyond. 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.</td>
</tr>
<tr>
<td>FREN 421</td>
<td>Francophone Cinema</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>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.</td>
</tr>
<tr>
<td>FREN 422</td>
<td>Contemporary Varieties of French</td>
<td>1</td>
<td>W2</td>
<td>In Person Learning Mon Fri</td>
<td>Study of the different varieties (or dialects) of contemporary French and issues related to French-speaking communities around the world. Prerequisite: FREN 313 and one of FREN 311, FREN 225.</td>
</tr>
<tr>
<td>FREN 423</td>
<td>Research Seminar in French literature and Culture</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>Consult the Department for this year's offerings. Prerequisite: One of FREN 223, FREN 311, FREN 321 and one of FREN 225, FREN 402.</td>
</tr>
<tr>
<td>FREN 424</td>
<td>Honours Essay</td>
<td>1</td>
<td>W1</td>
<td>In Person Learning Mon Fri</td>
<td>Restriction: this course is restricted to students in one of these programs: BA in French or Honours.</td>
</tr>
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</table>

**Notes:**
- Recommended pre-requisites: one of FREN 223, FREN 401, or assignment based on placement test.
- Arranged: In Person Learning
- 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 311, FREN 321 or (b) all of FREN 328, FREN 329 and one of FREN 225, FREN 402.
This course is not eligible for Credit/D/Fail grading. [1-1-1] Equivalency: LFS 110

Integration of first-year subjects and exposure to both First Nations and Western perspectives.

Current issues and cases in Forestry and Land and Food Systems are examined with a focus on sustainable management of forests in BC and the world. Assignments focus on critical thinking and written communication skills. [3-0-0]

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.

The credit value for this course will be determined in consultation with the student prior to registration.

This course is not eligible for Credit/D/Fail grading. Equivalency: SPAN 591

Credit will only be granted for only one of SPAN 591 or FREN 592. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: FREN 101. Equivalency: NRES 200

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

The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will only be granted for only one of SPAN 591 or FREN 591. This course is not eligible for Credit/D/Fail grading. [1-1-1] Equivalency: SPAN 592.

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 101. Equivalency: NRES 200

The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. This course is not eligible for Credit/D/Fail grading. [1-1-1] Equivalency: SPAN 591

Credit will only be granted for only one of SPAN 591 or FREN 591. This course is not eligible for Credit/D/Fail grading.

Restrictions: this course is restricted to students in one of these programs: BA in fourth-year with one of these specializations: HON FREN or HON HMGT.

Restrictions: this course is restricted to students in one of these specializations: HON FREN or HON HMGT.

Restrictions: this course is restricted to students in one of these specializations: HON FREN or HON HMGT.

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]

 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 110. [3-0-0] Equivalency: LFS 110, ECON 101

Classroom and lab activities designed to teach students the tools and techniques required to meet the needs of the Forest Industry. Emphasis is placed on the development of skills in technical communications, calculations, and data analysis. Credit will be granted for only one of FRST 101 or FRST 102. [3-0-0] Prerequisites: FRST 100.
The structure and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Equivalency: NRES 210.

The functional biology of trees and other forest plants in their environment, with an emphasis on angiosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Equivalency: NRES 210.

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 210 or FRST 210. [3-2-0] Equivalency: NRES 210.

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 210 or FRST 210. [3-2-0] Equivalency: NRES 210.

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 210 or FRST 210. [3-2-0] Equivalency: NRES 210.

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 210 or FRST 210. [3-2-0] Equivalency: NRES 210.

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*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 only if one of NRES 231 or FRST 231. [3-2-0]

**Pre-requisite:** One of FRST 201, NRES 201. Equivalency: NRES 231  
In Person Learning  
**Tue**  
4:00 p.m. - 6:00 p.m.

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*W2*  
Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing. Goodness of fit and analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/bachelor-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. 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. - 6:00 p.m.

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**Corequisite:** One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231  
In Person Learning  
**Mon Wed Fri**  
10:00 a.m. - 12:00 p.m.

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**Corequisite:** One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231  
In Person Learning  
**Mon Wed Fri**  
12:00 a.m. - 1:00 p.m.

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**Corequisite:** One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231  
In Person Learning  
**Arranged**  
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**Notes:**
- 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. [3-2-0]  
**Pre-requisite:** One of FRST 201, NRES 231 and one of FRST 232, NRES 232.  
In Person Learning  
**Mon Wed Fri**  
2:00 p.m. - 3:00 p.m.
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]

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]

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]

Population genetics and conservation of genetic resources; principles of genetics and their application to forestry. [2-2]

Population genetics and conservation of genetic resources; principles of genetics and their application to forestry. [2-2]

Co-operative Work Placement. Arranged

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.

Principles of Forest Science

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]

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]

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Co-operative Work Placement. Arranged

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.

Principles of Forest Science

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]

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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]

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]
Silviculture concepts and principles; stand dynamics; artificial and natural regeneration; cultural techniques for forest stand establishment and stand tending; structural systems; decision making and development of prescriptions; connections to forest planning. [3-3-0] Prerequisite: One of FRST 201, NRES 201 and one of RST 291, RST 295, UFOR 400.

**Soil Biology**

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 is recommended. [3-3-0] Equivalency: BIOL351, APBI351

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 is recommended. [3-3-0] Equivalency: BIOL351, APBI351
In Person Learning

**Atlantic Disturbances: Fire and Climate**

W1

Ecological effects of fire and climate (wind, temperature, and stress) disturbances; fire danger rating, principles of fire management and prescribed fire use; wildfire risk modelling and management. [3-0-0] Prerequisite: One of FRST 210, NRES 210 and one of FRST 211, NRES 211.

**Forest Level Measurement and Productivity**

W2

Obtaining and forecasting information for stands and forests. [3-2-0] Prerequisite: FRST 201. In Person Learning

Mon Wed Fri
8:00 a.m. - 9:00 a.m.

**Watershed Hydrology**

10:00 a.m. - 11:00 a.m.

**Foundational Field School**

Mon Wed Fri
9:00 a.m. - 11:00 a.m.

**Interior 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.

**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. Prerequisites: FRST 211 or NRES 211. Corequisite: FRST 251 or NRES 211.

**Forest level measurement and productivity**

W2

Obtaining and forecasting information for stands and forests. [3-2-0] Prerequisite: FRST 201. In Person Learning

Thu
9:00 a.m. - 11:00 a.m.

**Aquatic Ecosystems and Fish in Forested Watersheds**

W2

Effects of forest management activities on fish and aquatic ecosystems. [3-0-0] 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.

**Aquatic Ecosystems and Fish in Forested Watersheds**

W2

Effects of forest management activities on fish and aquatic ecosystems. [3-0-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science. In Person Learning

Wed
3:00 p.m. - 5:00 p.m.
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.

In Person Learning  Fri 1:00 p.m. - 3:00 p.m.

In Person Learning  Tue Thu 11:00 a.m. - 12:30 p.m.

In Person Learning  Thu Thu 12:30 p.m. - 2:00 p.m.

In Person Learning  Mon 8:00 a.m. - 10:00 a.m.

In Person Learning  Mon 3:00 p.m. - 5:00 p.m.

In Person Learning  Wed 8:00 a.m. - 10:00 a.m.

In Person Learning  Fri 8:00 a.m. - 10:00 a.m.

In Person Learning  Fri 3:00 p.m. - 5:00 p.m.

Online Learning  Mon Wed 11:00 a.m. - 12:30 p.m.

In Person Learning  Tue Thu 4:00 p.m. - 6:30 p.m.

In Person Learning  Mon 3:00 p.m. - 5:00 p.m.

In Person Learning  Wed 8:00 a.m. - 11:00 a.m.

In Person Learning  Tue Thu 11:00 a.m. - 12:30 p.m.

In Person Learning  Thu 1:00 p.m. - 2:00 p.m.

In Person Learning  Wed 1:00 p.m. - 6:00 p.m.

In Person Learning  Fri 1:00 p.m. - 6:00 p.m.

In Person Learning  Thu Thu 9:00 a.m. - 11:00 a.m.

In Person Learning  Wed 9:00 a.m. - 11:00 a.m.
FRST 433-010  FRST 433  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. [3-2-2] Prerequisite: FRST 422.
In Person Learning  Wed  11:00 a.m. - 1:00 p.m.

FRST 433-011  FRST 433  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. [3-2-2] Prerequisite: FRST 422.
In Person Learning  Tue  2:00 p.m. - 4:00 p.m.

FRST 436-001  FRST 436  T01  Advanced Biometrics  W1  Analysis of variance, multiple regression and analysis of covariance. Design and analysis of experiments. [3-2-2] Prerequisite: One of FRST 311, MATH 300, STAT 300. And FRST 369 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.

In Person Learning  Wed/Fri  1:00 p.m. - 2:30 p.m.

FRST 459-001  FRST 459  001  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. [3-2-3]
In Person Learning  Tue/Thu  3:30 p.m. - 5:00 p.m.

FRST 465-201  FRST 465  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. [3-2-0]
In Person Learning  Thu  8:00 a.m. - 10:00 a.m.

FRST 465-LA1  FRST 465  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. [3-2-0]
In Person Learning  Tue  8:00 a.m. - 10:00 a.m.

FRST 465-LA2  FRST 465  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. [3-2-0]
In Person Learning  Wed  8:00 a.m. - 10:00 a.m.

FRST 465-LA3  FRST 465  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. [3-2-0]
In Person Learning  Wed  6:00 p.m. - 8:00 p.m.

FRST 465-LA4  FRST 465  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. [3-2-0]
In Person Learning  Fri  8:00 a.m. - 10:00 a.m.

FRST 466-010  FRST 466  010  Agroforestry  W1  Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and group work designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalent: APBI444.
In Person Learning  Wed  12:00 p.m. - 1:00 p.m.

FRST 466-011  FRST 466  011  Agroforestry  W1  Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and group work designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalent: APBI444.
In Person Learning  Arranged  Arranged  Arranged  Arranged

FRST 466-012  FRST 466  012  Agroforestry  W1  Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and group work designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalent: APBI444.
In Person Learning  Arranged  Arranged  Arranged  Arranged

FRST 466-010  FRST 466  010  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  Arranged  Arranged

FRST 466-201  FRST 466  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  Arranged  Arranged

FRST 467-010  FRST 467  010  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.
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In Person Learning  Arranged  Arranged  Arranged  Arranged

FRST 468-010  FRST 468  010  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  Arranged  Arranged

FRST 468-011  FRST 468  011  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  Arranged  Arranged

FRST 468-L101  FRST 468  L101  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 468-L201  FRST 468  L201  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 468-F001  FRST 468  F001  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

The credit value for this course will be determined in consultation with the student prior to the registration.

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.

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<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>FRST_V-452-201</td>
<td>FIRST_V</td>
<td>Coastal Field School</td>
<td>2</td>
<td>Site diagnosis and preparation of management options in coastal forests. Familiarization of students with field equipment and techniques.</td>
</tr>
<tr>
<td>FRST_V-490-101</td>
<td>FIRST_V</td>
<td>Visual Resource Management and Planning for Aesthetics</td>
<td>2</td>
<td>Methodologies for visual analysis, perception, planning, and management of urban, natural and working landscapes, and implications for sustainable land use management and community engagement. Credit will be granted for only one of FRST 490 or FRST 551. Prerequisite: Third-year standing. Equivalency: LARC514.</td>
</tr>
<tr>
<td>FRST_V-490-201</td>
<td>FIRST_V</td>
<td>Visual Resource Management and Planning for Aesthetics</td>
<td>2</td>
<td>Methodologies for visual analysis, perception, planning, and management of urban, natural and working landscapes, and implications for sustainable land use management and community engagement. Credit will be granted for only one of FRST 490 or FRST 551. Prerequisite: Third-year standing. Equivalency: LARC514.</td>
</tr>
<tr>
<td>FRST_V-492-201</td>
<td>FIRST_V</td>
<td>Environmental Perception</td>
<td>2</td>
<td>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 well-being. (3-2-0) Prerequisite: Third-year standing.</td>
</tr>
<tr>
<td>FRST_V-495-201</td>
<td>FIRST_V</td>
<td>Biological Diversity and Conservation</td>
<td>2</td>
<td>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. Equivalency: One of FRST 201, HRES 201 and FRST 301.</td>
</tr>
<tr>
<td>FRST_V-497-101</td>
<td>FIRST_V</td>
<td>Communications and Professionalism</td>
<td>1</td>
<td>Preparing professional reports and presentations; professionalism and professional ethics. Prerequisite: Fourth-year standing.</td>
</tr>
<tr>
<td>FRST_V-498-101</td>
<td>FIRST_V</td>
<td>B.Sc. Thesis in Forestry</td>
<td>0</td>
<td>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.</td>
</tr>
<tr>
<td>FRST_V-498-102</td>
<td>FIRST_V</td>
<td>B.Sc. Thesis in Forestry</td>
<td>0</td>
<td>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.</td>
</tr>
<tr>
<td>FRST_V-498-610</td>
<td>FIRST_V</td>
<td>B.Sc. Thesis in Forestry</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>FRST_V-499-101</td>
<td>FIRST_V</td>
<td>B.Sc. Thesis</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>FRST_V-500-101</td>
<td>FIRST_V</td>
<td>Teaching and Learning in Forestry</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>FRST_V-503-101</td>
<td>FIRST_V</td>
<td>Plant Molecular Biology Laboratory</td>
<td>2</td>
<td>Techniques of purification, cloning, sequencing, restriction hybridization analysis of plant nuclear and chloroplast DNA. Methods of 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.</td>
</tr>
<tr>
<td>FRST_V-505-C_101</td>
<td>FIRST_V</td>
<td>Directed Studies in Forest Science</td>
<td>1</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>FRST_V-506-201</td>
<td>FIRST_V</td>
<td>Advanced Forest Pathology</td>
<td>2</td>
<td>Hereditary, physiological, anatomical, environmental, and microbiological factors influencing forest tree diseases. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V-507-A_101</td>
<td>FIRST_V</td>
<td>Topics in Forest Science</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Topics in Forest Science</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
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<td>Topics in Forest Science</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V-508-201</td>
<td>FIRST_V</td>
<td>Advanced Forest Insect Ecology</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>FRST_V-511-201</td>
<td>FIRST_V</td>
<td>Climate Change Communications and Engagement</td>
<td>2</td>
<td>Psychological, social, and systemic dimensions of climate change communication, approaches for engaging diverse groups for low-carbon futures; overcoming climate inertia.</td>
</tr>
<tr>
<td>FRST_V-519-101</td>
<td>FIRST_V</td>
<td>Forests and Society</td>
<td>1</td>
<td>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.</td>
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<tr>
<td>FRST_V-521-C_101</td>
<td>FIRST_V</td>
<td>Topics in Forests and Society</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>FRST_V-521-C_304</td>
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<td>Topics in Forests and Society</td>
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<td>Topics in Forests and Society</td>
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<tr>
<td>FRST-V522-101</td>
<td>FRST-V</td>
<td>Social, Community, and Indigenous Forestry</td>
<td>522</td>
<td>101</td>
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<tr>
<td>FRST-V523-901</td>
<td>FRST-V</td>
<td>Forest and Environmental Policy</td>
<td>523</td>
<td>901</td>
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<td>FRST-V523-701</td>
<td>FRST-V</td>
<td>Forest and Environmental Policy</td>
<td>523</td>
<td>701</td>
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<td>FRST-V524-901</td>
<td>FRST-V</td>
<td>Environmental Perception</td>
<td>524</td>
<td>901</td>
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<td>FRST-V530-201</td>
<td>FRST-V</td>
<td>Advanced Modelling Methods for Natural Resource Applications</td>
<td>530</td>
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<td>FRST-V531-201</td>
<td>FRST-V</td>
<td>Multivariate Statistical Methods</td>
<td>531</td>
<td>201</td>
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<tr>
<td>FRST-V532-C_001</td>
<td>FRST-V</td>
<td>Directed Studies in Forest Management</td>
<td>532</td>
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<td>FRST-V532-C_002</td>
<td>FRST-V</td>
<td>Directed Studies in Forest Management</td>
<td>532</td>
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<td>Directed Studies in Forest Management</td>
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<td>FRST-V533-C_001</td>
<td>FRST-V</td>
<td>Problems in Statistical Methods</td>
<td>533</td>
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<td>FRST-V533-C_001</td>
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<td>Problems in Statistical Methods</td>
<td>533</td>
<td>C</td>
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<td>FRST-V534-201</td>
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<td>Natural Resource Economics</td>
<td>534</td>
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<td>Topics in Forest Management</td>
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<td>C</td>
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<td>FRST-V538-101</td>
<td>FRST-V</td>
<td>Advanced Geomatics for Natural Resource Management</td>
<td>538</td>
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<td>FRST-V</td>
<td>Advanced Geomatics for Natural Resource Management</td>
<td>538</td>
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<tr>
<td>FRST-V538-301</td>
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<td>Advanced Geomatics for Natural Resource Management</td>
<td>538</td>
<td>301</td>
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<tr>
<td>FRST-V540-301</td>
<td>FRST-V</td>
<td>International Forestry Institutions, Diplomacy and Negotiation</td>
<td>540</td>
<td>301</td>
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<tr>
<td>FRST-V548-101</td>
<td>FRST-V</td>
<td>Technical Communication Skills I</td>
<td>548</td>
<td>101</td>
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<tr>
<td>548</td>
<td>M.A.Sc. Thesis</td>
<td>Technical Communication Skills I</td>
<td>Principles and practice of oral presentations. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Fri 9:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>549</td>
<td>M.A.Sc. Thesis</td>
<td>Technical Communication Skills II</td>
<td>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.</td>
<td>In Person Learning, Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>547</td>
<td>M.A.Sc. Thesis</td>
<td>Forestry in British Columbia</td>
<td></td>
<td>In Person Learning, Fri 9:30 a.m. - 12:30 p.m.</td>
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For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading.
<table>
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<th>Course Code</th>
<th>Course Name</th>
<th>Credit Value</th>
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<th>Grade Options</th>
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<tr>
<td>FRST_V551-001</td>
<td>FRST_V551-001: Landscape Planning for Sustainability</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>FRST_V552-001</td>
<td>FRST_V552-001: Landscape-Level Forest Land Management</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>FRST_V559-001</td>
<td>FRST_V559-001: Natural Resource Planning</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed/Thu</td>
</tr>
<tr>
<td>FRST_V560-001</td>
<td>FRST_V560-001: Forest Business Enterprise</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon</td>
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<tr>
<td>FRST_V562-001</td>
<td>FRST_V562-001: Topics in International Forestry</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>FRST_V569-001</td>
<td>FRST_V569-001: Directed Studies in Forest Business and Management</td>
<td>W1-2</td>
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<td>FRST_V578-C_101</td>
<td>FRST_V578-C_101: Directed Studies in Forest Business and Management</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>FRST_V578-C_201</td>
<td>FRST_V578-C_201: Directed Studies in Forest Business and Management</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>FRST_V580-C_101</td>
<td>FRST_V580-C_101: Topics in Forest Business and Management</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon/We</td>
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<tr>
<td>FRST_V580-C_102</td>
<td>FRST_V580-C_102: Topics in Forest Business and Management</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>FRST_V589-001</td>
<td>FRST_V589-001: Climate Adaptation in Socio-Ecological Systems</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>FRST_V595-001</td>
<td>FRST_V595-001: Transformative Environmental Research</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>FRST_V649-001</td>
<td>FRST_V649-001: Doctoral Dissertation</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>FRST_V649-001</td>
<td>FRST_V649-001: Doctoral Dissertation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>FRST_V649-001</td>
<td>FRST_V649-001: Doctoral Dissertation</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>FSCT_V280-001</td>
<td>FSCT_V280-001: Introductory Forensic Science I</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</table>
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.

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.

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.

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.

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.

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.

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.

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.

Current concepts and skills in ecological modelling and spatial analysis. This course is not eligible for Credit/D/Fail grading.

Current concepts and skills in ecological modelling and spatial analysis. This course is not eligible for Credit/D/Fail grading.

Principles and practices of Geographic Information Systems (GIS). This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 500.

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Principles and practices of Geographic Information Systems (GIS). This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 500.

Principles and practices of Geographic Information Systems (GIS). This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 500.

Advanced geographic information systems for environmental management.

Capturing spatial data and the use of remote sensing systems to map, monitor and better manage forest, vegetation and ecosystems. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 520.

Advanced topics and techniques in remote sensing and image processing. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 520.

Understanding geo-spatial data structures, databases and developing, maintaining and utilizing geo-spatial data. This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 548.

Linear Regression Models and Introduction to Spatial Statistics.

This course is not eligible for Credit/D/Fail grading. Prerequisite: FSCT 548.
<table>
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<th>Section</th>
<th>Type</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>GEOG_V 121</td>
<td>101</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>12:00 p.m.</td>
<td>201</td>
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<td>102</td>
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<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>1:00 p.m.</td>
<td>202</td>
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<td>103</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
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<td>2:00 p.m.</td>
<td>203</td>
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<tr>
<td>GEOG_V 121</td>
<td>104</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>3:00 p.m.</td>
<td>204</td>
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<tr>
<td>GEOG_V 121</td>
<td>105</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>4:00 p.m.</td>
<td>205</td>
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<tr>
<td>GEOG_V 121</td>
<td>106</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>5:00 p.m.</td>
<td>206</td>
<td></td>
</tr>
<tr>
<td></td>
<td>107</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>6:00 p.m.</td>
<td>207</td>
<td></td>
</tr>
<tr>
<td>GEOG_V 121</td>
<td>108</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>7:00 p.m.</td>
<td>208</td>
<td></td>
</tr>
<tr>
<td>GEOG_V 121</td>
<td>109</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>8:00 p.m.</td>
<td>209</td>
<td></td>
</tr>
<tr>
<td>GEOG_V 121</td>
<td>110</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>9:00 p.m.</td>
<td>210</td>
<td></td>
</tr>
<tr>
<td>GEOG_V 121</td>
<td>111</td>
<td>In Person</td>
<td>Geography, Environment and Globalization</td>
<td>Wed</td>
<td>10:00 p.m.</td>
<td>211</td>
<td></td>
</tr>
</tbody>
</table>

This course is not eligible for Credit/D/Fail grading. [3-2-0]
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG_V 122-L1P</td>
<td>Geography, Environment and Globalization</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Thu 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L1Q</td>
<td>Geography, Environment and Globalization</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>GEOG_V 122-L1B</td>
<td>Geography, Environment and Globalization</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Wed 5:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L1S</td>
<td>Geography, Environment and Globalization</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Wed 12:00 a.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L1A</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>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.</td>
<td>Online Learning</td>
<td>Fri 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L1B</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>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.</td>
<td>Online Learning</td>
<td>Fri 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L1C</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>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.</td>
<td>Online Learning</td>
<td>Fri 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2O</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>Online Learning</td>
<td>Mon- Wed Fri 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L3O</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Mon- Wed Fri 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2A</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Tue 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2B</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Tue 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2C</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Wed 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2O</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
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<td>GEOG_V 122-L3O</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Wed 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2A</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Thu 4:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2B</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Thu 10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>GEOG_V 122-L2C</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Thu 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2O</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Fri 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L3O</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Fri 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>GEOG_V 122-L2A</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Fri 3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>GEOG_V 122-L2B</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
<td>In Person Learning</td>
<td>Mon 12:00 p.m. - 1:00 p.m.</td>
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<td>GEOG_V 122-L2C</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
<td>The human geography of the modern world since 1945: global interdependence in economic geography, geopolitics, and cultural geography; consequences of modernization, including demography, urbanization and environmental effects; regional case studies; reactions to modernization.</td>
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<tr>
<td>GEOG_V 122-L2A</td>
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<td>In Person Learning</td>
<td>Wed 2:00 p.m. - 3:00 p.m.</td>
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GEOG 231-127 Geography, Modernity and Globalization

GEOG 230-101 Climate Emergency

L2C 11:00 a.m. - 12:30 p.m. In Person Learning

L2D 10:00 a.m. - 11:30 a.m. In Person Learning

L2B 11:00 a.m. - 12:30 p.m. In Person Learning

L2A 11:00 a.m. - 12:30 p.m. In Person Learning

L1C 11:00 a.m. - 12:30 p.m. In Person Learning

L1B 11:00 a.m. - 12:30 p.m. In Person Learning

L1A 11:00 a.m. - 12:30 p.m. In Person Learning

L1D 11:00 a.m. - 12:30 p.m. In Person Learning

L1E 11:00 a.m. - 12:30 p.m. In Person Learning

L1A 11:00 a.m. - 12:30 p.m. In Person Learning

GEOG 310-202 Cities and Sustainability

Environmental Sustainability

GEOG 310-101 Environment and Sustainability

GEOG 310-101 Urban Sustainability

The human geography of the modern world since 1945: global interdependence in economic, geographic, political, and cultural geography; consequences of modernization, including demographic, urbanization and environmental effects; regional case studies; reactions to modernization.

The demographics, economic, ecological, and technological factors that underlie current environmental challenges, calculating their effects to date and their possible impacts in the future. Credit will only be granted for one of GEOG 202 or ENST 202.

Recommended. Second-year standing. Equivalency: ENST 202

Climate change and its impacts; strategies and tools for climate action at local, national, and global levels. Credit will only be granted for one of GEOG 202 or ENST 202.

Recommended. Second-year standing. Equivalency: ENST 202

In Person Learning

Mon 3:00 p.m. - 6:00 p.m.

In Person Learning

Wed 2:00 p.m. - 3:30 p.m.

In Person Learning

Arranged

Arranged

12:00 a.m. - 12:30 p.m.

In Person Learning

Arranged

Arranged

In Person Learning

Tue Thu 10:00 a.m. - 12:00 p.m.

In Person Learning

Arranged

Recommended.

Second-year standing.

Equivalency: ENST 202

In Person Learning

Wed Thu 3:00 p.m. - 6:00 p.m.

In Person Learning

Wed 9:00 a.m. - 10:00 a.m.

In Person Learning

Fri 9:00 a.m. - 10:00 a.m.

In Person Learning

Fri 10:00 a.m. - 11:00 a.m.

Online Learning

Arranged

Online Learning

Arranged

Online Learning

Arranged

Online Learning

Arranged

Online Learning

Arranged

In Person Learning

Mon 5:00 p.m. - 8:00 p.m.

In Person Learning

Arranged

In Person Learning

Wed 11:00 a.m. - 12:00 p.m.

In Person Learning

Tue Thu 2:00 p.m. - 3:30 p.m.

In Person Learning

Mon 9:30 a.m. - 11:00 a.m.
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: ENST 311

Climate change, water use, knowledge translation and natural hazards. Credit will be granted for only one of GEOG 312 or ENST 312. Recommended pre-requisites: one of GEOG 302, GEOB 102, GEOB 200, GEO 204, ATSC 301, EOSC 312. Third-semester standing. Equivalency: ENST 312

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-requisites: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 313

Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 314 or ENST 314. Recommended pre-requisites: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 314

Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 315 or ENST 315. Recommended pre-requisites: GEOG 121. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 315

Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 316 or ENST 316. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 316

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 318 or ENST 318. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 318

Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 319 or ENST 319. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 319

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 320 or ENST 320. Recommended pre-requisites: One of GEOG 211, GEOB 102, GEOB 200, GEOS 102, GEOB 103 or EOSC 110 or EOSC 112. Equivalency: ENST 320

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 321 or ENST 321. Recommended pre-requisites: One of GEOG 211, GEOB 102, GEOB 200, GEOS 102, GEOB 103 or EOSC 110 or EOSC 112. Equivalency: ENST 321

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 322 or ENST 322. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 322

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 323 or ENST 323. Recommended pre-requisites: One of GEOG 211, GEOB 102, GEOB 200, GEOS 102, GEOB 103 or EOSC 110 or EOSC 112. Equivalency: ENST 323

Economic, social, political and cultural structures and institutions that shape contemporary socioecological challenges. Credit will be granted for only one of GEOG 324 or ENST 324. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 324

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 325 or ENST 325. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 325

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 326 or ENST 326. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 326

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 327 or ENST 327. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 327

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 328 or ENST 328. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 328

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 329 or ENST 329. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 329

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 330 or ENST 330. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 330

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 331 or ENST 331. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 331

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 332 or ENST 332. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 332

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 333 or ENST 333. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 333

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 334 or ENST 334. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 334

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 335 or ENST 335. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 335

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 336 or ENST 336. Restricted to students with at least third-year standing. This course is not eligible for Credit/D/Fail grading. Equivalency: ENST 336

The role of geophysical events, human ecology, environmental perception, world social and political order in exploiting the risk of natural disasters. Assessment of acceptable risk, disaster relief and reconstruction and contracts between developed and developing nations. Credit will only be granted for one of GEOG 338 or ENST 338. Recommended pre-requisites: one of GEOG 102, GEOB 200 and one of GEOB 103, GEOB 106. Equivalency: ENST 338

In Person Learning: Tue Thu
9:30 a.m. - 11:00 a.m.

In Person Learning: Mon Wed
2:00 p.m. - 3:30 p.m.

In Person Learning: Wed
2:00 p.m. - 5:30 p.m.

In Person Learning: Arranged

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In Person Learning: Arranged

In Person Learning: Arranged
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 358 or ENST 318. Recommended pre-requisite: GEOG 110. Equivalency: ENST 318  In Person Learning  Wed  3:00 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: ENST 319  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 329-201  GEOG_V 329  201  Constructing Canada  W2  The construction of Canadian political space after Confederation, aboriginal-settler relations, regional development and conflict, industrialization, urbanization, and war. In Person Learning  Wed Fri  9:30 a.m. - 11:00 a.m.

GEOG_V 339-101  GEOG_V 339  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 343-101  GEOG_V 343  101  Post- and Anti-colonial Geographies  W1  An examination of some key postcolonial and anticolonial theories to engage with questions of geographical difference, processes of 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 344-A_101  GEOG_V 344  A  A_101  Topics in Geography  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  Topics in Geography  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, neighborhood 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  W1  City systems and theories of urban location; internal spatial structure of the city; commercial and industrial location; social areas, neighborhood 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 Indigenousity  W1  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 behavioral 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  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-requisite: either (a) GEOG 122 or (b) GEOG 260. Online Learning  Mon Wed  3:30 p.m. - 5:00 p.m.

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-requisite: either (a) GEOG 122 or (b) GEOG 260. Online Learning  Mon Wed  3:30 p.m. - 5:00 p.m.

GEOG_V 363-201  GEOG_V 363  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-requisite: either (a) GEOG 122 or (b) GEOG 260. Online Learning  Mon Wed  3:30 p.m. - 5:00 p.m.

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-requisite: one of GEOG 251, GEOG 252. 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 surveys, methods to ethnography. Priority enrollment 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-LA  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 surveys, methods to ethnography. Priority enrollment 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.
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 honors 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.

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 honors 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.

Statistics in Geography
W2
Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honors and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists.
Online Learning
Tue Thu
3:30 p.m. - 5:00 p.m.

Statistics in Geography
W2
Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honors and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists.
In Person Learning
Mon
2:00 p.m. - 4:00 p.m.

Statistics in Geography
W2
Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honors and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists.
In Person Learning
Mon
12:00 p.m. - 2:00 p.m.

Statistics in Geography
W2
Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honors and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists.
In Person Learning
Thu
12:00 p.m. - 2:00 p.m.

Statistics in Geography
W2
Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honors and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists.
In Person Learning
Fri
10:00 a.m. - 12:00 p.m.

Statistics in Geography
W2
Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honors and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists.
Online Learning
Mon
4:00 p.m. - 6:00 p.m.

Culture, Nature, and Coloniality in Latin America
W1
Socio-ecologies in 1491: Spanish colonization and biological imperialism; contemporary colonialism and neoliberalism; and social movements.
In Person Learning
Arranged
Arranged

Culture, Nature, and Coloniality in Latin America
W2
Socio-ecologies in 1491: Spanish colonization and biological imperialism; contemporary colonialism and neoliberalism; and social movements.
In Person Learning
Arranged
Arranged

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 412. This course is not eligible for Credit/D/Fail grading.
Prerequisite: ENVR 401. Equivalency: DENV402.
In Person Learning
Thu
2:00 p.m. - 5:00 p.m.

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. Restriction: GEOG 101. 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.

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. Restriction: GEOG 101. 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.

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 401. Equivalency: ENST 412.
In Person Learning
Mon
11:00 a.m. - 2:00 p.m.

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 401. Equivalency: ENST 412.
In Person Learning
Mon
2:00 p.m. - 5:00 p.m.

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.

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.

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 101, or equivalent, is strongly recommended for students with 3rd year standing.
In Person Learning
Wed
11:00 a.m. - 2:00 p.m.

Topics in Geography
W1
See the departmental undergraduate advisor for details.
In Person Learning
Wed
10:00 a.m. - 11:00 a.m.

Topics in Geography
W1
See the departmental undergraduate advisor for details.
In Person Learning
Arranged
Arranged

Topics in Geography
W1
See the departmental undergraduate advisor for details.
In Person Learning
Arranged
Arranged

Topics in Geography
W1
See the departmental undergraduate advisor for details.
In Person Learning
Wed
11:00 a.m. - 2:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Type</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 446-A_201</td>
<td>A_101</td>
<td>In Person Learning</td>
<td>Topics in Geography</td>
<td>Mon</td>
<td>11:00 a.m. - 2:00 p.m.</td>
<td>199</td>
<td>4</td>
<td>Arranged</td>
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<tr>
<td>GEOG 446-B_201</td>
<td>A_101</td>
<td>In Person Learning</td>
<td>Topics in Geography</td>
<td>Mon</td>
<td>11:00 a.m. - 2:00 p.m.</td>
<td>201</td>
<td>4</td>
<td>Arranged</td>
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<tr>
<td>GEOG 446-C_202</td>
<td>B</td>
<td>Online Learning</td>
<td>Topics in Geography</td>
<td>W2</td>
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<td>See the departmental undergraduate advisor for details.</td>
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<td>GEOG 446-B_202</td>
<td>B_201</td>
<td>Online Learning</td>
<td>Topics in Geography</td>
<td>W2</td>
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<td>See the departmental undergraduate advisor for details.</td>
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<tr>
<td>GEOG 498-101</td>
<td>101</td>
<td>In Person Learning</td>
<td>Directed Studies in Geography</td>
<td>W1</td>
<td></td>
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<td>4</td>
<td>Investigation of a topic to be agreed upon by the supervising faculty member and the student.</td>
</tr>
<tr>
<td>GEOG 498-201</td>
<td>201</td>
<td>Online Learning</td>
<td>Directed Studies in Geography</td>
<td>W2</td>
<td></td>
<td></td>
<td>4</td>
<td>Investigation of a topic to be agreed upon by the supervising faculty member and the student.</td>
</tr>
<tr>
<td>GEOG 430-201</td>
<td>B_201</td>
<td>Online Learning</td>
<td>Urban Research</td>
<td>W2</td>
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<td>4</td>
<td>Historical, legal, and quantitative analysis of urban research. Emphasis on spatial, social, and political dynamics of urban inequality.</td>
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<tr>
<td>GEOG 431-100</td>
<td>100</td>
<td>In Person Learning</td>
<td>Urban Studies Capstone I</td>
<td>W1</td>
<td></td>
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<td>4</td>
<td>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 431 or URST 431.</td>
</tr>
<tr>
<td>GEOG 453-101</td>
<td>101</td>
<td>In Person Learning</td>
<td>Political Geographic Analysis</td>
<td>W1</td>
<td></td>
<td></td>
<td>4</td>
<td>Political organization of space; territorial and spatial patterns of power and identity; contemporary geopolitical struggles.</td>
</tr>
<tr>
<td>GEOG 454-201</td>
<td>201</td>
<td>Online Learning</td>
<td>Film and the City</td>
<td>W2</td>
<td></td>
<td></td>
<td>4</td>
<td>The complex interrelations between films 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 454, URST 454, or ARTH 454.</td>
</tr>
<tr>
<td>GEOG 461-201</td>
<td>201</td>
<td>In Person Learning</td>
<td>Urban Political-Economic Geographies</td>
<td>W2</td>
<td></td>
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<td>4</td>
<td>Principal theories and debates in urban political economy and political-economic geography, with particular emphasis on global transformations.</td>
</tr>
<tr>
<td>GEOG 495-201</td>
<td>201</td>
<td>In Person Learning</td>
<td>Geographies of Social Movements in the Americas</td>
<td>W2</td>
<td></td>
<td></td>
<td>4</td>
<td>The politics of North-South solidarity in theory and practice through community service learning models. Recommended pre-requisite: use of LAW 100, GEOG 350. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>GEOG 497-101</td>
<td>101</td>
<td>In Person Learning</td>
<td>The Arctic</td>
<td>W1</td>
<td></td>
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<td>4</td>
<td>Physical and biological characteristics of the circumpolar Arctic; emphasizing tectonic environments and the impacts on and by humans, including: glacial history; climatology; biogeography/hydrology of Arctic faunas; human-environment interactions; settlement and exploration; and current environmental, social and economic problems.</td>
</tr>
<tr>
<td>GEOG 498-101</td>
<td>101</td>
<td>In Person Learning</td>
<td>Geographies of the Middle East</td>
<td>W1</td>
<td></td>
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<td>4</td>
<td>Critical analysis of economic, social, and political development and processes defining the modern Middle East region.</td>
</tr>
<tr>
<td>GEOG 514-A_101</td>
<td>A_101</td>
<td>In Person Learning</td>
<td>Topics in Environmental Geography</td>
<td>W1</td>
<td></td>
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<td>4</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GEOG 514-B_101</td>
<td>B_101</td>
<td>In Person Learning</td>
<td>Topics in Environmental Geography</td>
<td>W1</td>
<td></td>
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<td>4</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GEOG 514-B_201</td>
<td>B_201</td>
<td>Online Learning</td>
<td>Topics in Environmental Geography</td>
<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GEOG 520-101</td>
<td>101</td>
<td>In Person Learning</td>
<td>Themes and Interpretive Issues in Modern Human Geography</td>
<td>W1</td>
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<td>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., M.S., M.Geo, or Ph.D. GEOG. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>GEOG 523-A_201</td>
<td>A_201</td>
<td>Online Learning</td>
<td>Advanced Seminar in Human Geography</td>
<td>W2</td>
<td></td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GEOG 545-A_101</td>
<td>A_101</td>
<td>In Person Learning</td>
<td>Topics in Human Geography</td>
<td>W1</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>GEOG 545-B_201</td>
<td>B_201</td>
<td>In Person Learning</td>
<td>Topics in Human Geography</td>
<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GEOG 545-E_201</td>
<td>E_201</td>
<td>In Person Learning</td>
<td>Topics in Human Geography</td>
<td>W2</td>
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<td>4</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GEOG 551-201</td>
<td>201</td>
<td>Online Learning</td>
<td>Urban Social Geography</td>
<td>W2</td>
<td></td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GEOG 560-A_101</td>
<td>A_101</td>
<td>In Person Learning</td>
<td>Economic Geography</td>
<td>W1</td>
<td></td>
<td></td>
<td>4</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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</table>
Our Changing Environment: Climate and Ecosystems

- **Mon**
  - In Person Learning
  - 9:00 a.m. - 10:00 a.m.
  - GEOG_V 102
  - W1

- **Wed**
  - In Person Learning
  - 3:00 p.m. - 4:00 p.m.
  - GEOG_V 102
  - W1

- **Thu**
  - In Person Learning
  - 10:00 a.m. - 11:00 a.m.
  - GEOG_V 102
  - W1

- **Fri**
  - In Person Learning
  - 10:00 a.m. - 11:00 a.m.
  - GEOG_V 102
  - W1

**Description:**
- In Person Learning
- 2.00 p.m. - 3.00 p.m.
- 3.00 p.m. - 4.00 p.m.
- 4.00 p.m. - 5.00 p.m.
- 5.00 p.m. - 6.00 p.m.
- 7.00 p.m. - 8.00 p.m.
- 8.00 p.m. - 9.00 p.m.
- 9.00 p.m. - 10.00 p.m.

**Courses:***
- **GEOG_V 102-101**
- **GEOG_V 102-102**
- **GEOG_V 102-103**
- **GEOG_V 102-104**
- **GEOG_V 102-105**
- **GEOG_V 102-106**
- **GEOG_V 102-107**
- **GEOG_V 102-108**
- **GEOG_V 102-109**
- **GEOG_V 102-110**
- **GEOG_V 102-111**
- **GEOG_V 102-112**

**Restricted to MA in Geography students. This course is not eligible for Credit/D/Fail grading.**

**Courses:**
- **Master's Thesis**
- **Doctoral Dissertation**

**In Person Learning:**
- GEOG_V 102
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**In Person Learning:**
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Our Changing Environment: Climate and Ecosystems

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: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]

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Physical processes acting at the Earth's surface; water cycle; landforms; human impacts. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]

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: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]

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: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]

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: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]

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Physical processes acting at the Earth's surface; water cycle; landforms; human impacts. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]

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Physical processes acting at the Earth's surface; water cycle; landforms; human impacts. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]

Physical processes acting at the Earth's surface; water cycle; landforms; human impacts. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]
GEOS 370-101 Geographic Information Science
270 201
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 370-L1A Geographic Information Science
270 L1A
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 370-L1B Geographic Information Science
270 L1B
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 370-L1C Geographic Information Science
270 L1C
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 370-L1D Geographic Information Science
270 L1D
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 2:00 p.m. - 4:00 p.m.

GEOS 370-L1E Geographic Information Science
270 L1E
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 370-L1F Geographic Information Science
270 L1F
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 12:00 p.m. - 2:00 p.m.

GEOS 370-L2A Geographic Information Science
270 L2A
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 370-L2B Geographic Information Science
270 L2B
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 370-L2C Geographic Information Science
270 L2C
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 10:00 a.m. - 12:00 p.m.

GEOS 370-L2D Geographic Information Science
270 L2D
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 6:00 p.m. - 8:00 p.m.

GEOS 380-101 Microscale Weather and Climate
300 101
W1
Microclimatology and climatology of the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates evolve as land use changes are made. Significant increase in urban areas is expected. Recommended pre-requisite: one of GEOB 205, GEOS 205, ATSC 201, [3-0-0] In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

GEOS 380-L1D Microscale Weather and Climate
300 L1D
W1
Microclimatology and climatology of the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates evolve as land use changes are made. Significant increase in urban areas is expected. Recommended pre-requisite: one of GEOB 205, GEOS 205, ATSC 201, [3-0-0] In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

GEOS 380-L1E Microscale Weather and Climate
300 L1E
W1
Microclimatology and climatology of the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates evolve as land use changes are made. Significant increase in urban areas is expected. Recommended pre-requisite: one of GEOB 205, GEOS 205, ATSC 201, [3-0-0] In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

GEOS 380-L2C Microscale Weather and Climate
300 L2C
W1
Microclimatology and climatology of the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates evolve as land use changes are made. Significant increase in urban areas is expected. Recommended pre-requisite: one of GEOB 205, GEOS 205, ATSC 201, [3-0-0] In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

GEOS 381-101 Tropical Ecosystems in a Changing World
303 101
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 GEOG 207, GEOG 209, ATSC 201, [3-0-0] In Person Learning Arranged

GEOS 385-101 Introduction to Hydrology
305 201
W2
Principles of hydrology at site, watershed, and larger regional scales. Introduction to techniques of measurement and analysis. Emphasis on 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 121. [3-2*-0] In Person Learning Mon Wed 3:30 p.m. - 5:00 p.m.

GEOS 385-L1A Introduction to Hydrology
305 L1A
W2
Principles of hydrology at site, watershed, and larger regional scales. Introduction to techniques of measurement and analysis. Emphasis on 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 121. [3-2*-0] In Person Learning Thu 6:00 p.m. - 8:00 p.m.

GEOS 385-L1B Introduction to Hydrology
305 L1B
W2
Principles of hydrology at site, watershed, and larger regional scales. Introduction to techniques of measurement and analysis. Emphasis on 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 121. [3-2*-0] In Person Learning Thu 6:00 p.m. - 8:00 p.m.

GEOS 387-201 Biogeography and Global Change
307 201
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 GEOB 207, GEOS 207, GEOS 307, GEOS 307, FRST 201, FRST 201. [3-2*-0] Hybrid Learning Wed 3:00 p.m. - 5:00 p.m.

GEOS 387-L1A Biogeography and Global Change
307 L1A
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 GEOB 207, GEOS 207, GEOS 307, GEOS 307, FRST 201, FRST 201. [3-2*-0] In Person Learning Tue 3:00 p.m. - 5:00 p.m.

GEOS 387-L1B Biogeography and Global Change
307 L1B
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 GEOB 207, GEOS 207, GEOS 307, GEOS 307, FRST 201, FRST 201. [3-2*-0] In Person Learning Wed 5:00 p.m. - 7:00 p.m.

GEOS 387-L1C Biogeography and Global Change
307 L1C
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 GEOB 207, GEOS 207, GEOS 307, GEOS 307, FRST 201, FRST 201. [3-2*-0] In Person Learning Thu 3:00 p.m. - 5:00 p.m.

GEOS 390-101 Advanced Geographic Information Science
370 101
W1
Theoretical and practical aspects of Geographic Information Systems, including cartographic modeling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENSC, GEOG, KIN, LUBT, or GEOG (or GEOB) specialization, with some introductory knowledge of GIS. [3-2-0] In Person Learning Mon Wed 12:30 p.m. - 2:00 p.m.
### Theoretical and Practical Aspects of Geographic Information Systems

Theoretical and practical aspects of Geographic Information Systems, including cartographic modeling, digital terrain models, management issues, and spatial interpolation. Recommended prerequisites: Third-year standing in ENSC, GEOS, ENST, or GEOS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0]

### Cartography

Cartographic methods: development of cartography; projections; data ordering, compilation and symbolization; cartographic design; map reproduction. Recommended prerequisites: one of GEOS 102, GEOS 103, GEOS 105, GEOS 106. [2-0-0]

### Introductory Remote Sensing

Aerial photography; measurement from aerial photographs; photo-interpretation in geographic analysis; remote sensing of the earth's surface and atmosphere. Recommended prerequisites: one of GEOS 270, GEOS 280, or third-year standing in ENSC, GEOS, or GEOB (or GEOB) specializations. [3-2-0]

### Air Pollution Meteorology

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]
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Week(s)</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEDS_V 405-201</td>
<td>Advanced Seminar in Geomorphology</td>
<td>Mon Wed</td>
<td>2</td>
<td>Introduction to open channel flow and sediment transport. River morphology and channel types. Palaeogeography. The development of channel networks. Recommended pre-requisites: one of GEOB 206, GEOS 206, GEOG 206. [2-3-0]</td>
</tr>
<tr>
<td>GEDS_V 406-201</td>
<td>Fluvial Geomorphology</td>
<td>W2</td>
<td>4</td>
<td>In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>GEDS_V 406-202</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning Wed 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 406-203</td>
<td>W2</td>
<td></td>
<td></td>
<td>In Person Learning Wed 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 406-204</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning Wed 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 407-201</td>
<td>Vegetation Dynamics: Disturbance, Climate and Human Impacts</td>
<td>W2</td>
<td>4</td>
<td>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] Pre-requisite: One of GEO 206, GEOS 206, GEOD 207, RGST 201. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>GEDS_V 407-202</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning Wed 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>GEDS_V 407-203</td>
<td>W2</td>
<td></td>
<td></td>
<td>In Person Learning Wed 3:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 408-201</td>
<td>Directed Studies in Geographical Sciences</td>
<td>W1</td>
<td>4</td>
<td>For fourth-year students in Geog and permission of the faculty to permit investigation of a topic. Also permits the faculty to permit investigation of a topic. Recommended pre-requisites: one of GERM 100 or GERN 101. Credit will be granted for only one of GERM 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</td>
</tr>
<tr>
<td>GEDS_V 408-202</td>
<td>W2</td>
<td></td>
<td></td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GEDS_V 408-203</td>
<td>W1,2</td>
<td></td>
<td></td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GEDS_V 409-201</td>
<td>Research in Cartography</td>
<td>W2</td>
<td>4</td>
<td>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 GEO 210, GEO 379, GEOS 377. [2-3-0] In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GEDS_V 410-201</td>
<td>Advanced Seminar in Geomorphology</td>
<td>W2</td>
<td>4</td>
<td>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] Pre-requisite: One of GEO 379, GEOS 379. In Person Learning Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 500-101</td>
<td>Theory and Practice of Research in Geographical Sciences</td>
<td>W1</td>
<td>1</td>
<td>Credit will be granted for only one of GERM 500 or GERN 500. Restricted to M.A. GEOG, M.A. GEOL, or Ph.D. GEOG. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>GEDS_V 500-201</td>
<td>Undergraduate Thesis</td>
<td>W1-2</td>
<td>4</td>
<td>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 GEOG 449 or GEOG 450. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GEDS_V 501-201</td>
<td>Research in Geographical Information Sciences</td>
<td>W2</td>
<td>4</td>
<td>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] Pre-requisite: One of GEO 379, GEOS 379. In Person Learning Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 505-101</td>
<td>Directed Studies in Geographical Sciences</td>
<td>W2</td>
<td>4</td>
<td>In Person Learning Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 505-201</td>
<td>Undergraduate Thesis</td>
<td>W1-2</td>
<td>4</td>
<td>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 GEOG 449 or GEOG 450. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GEDS_V 506-101</td>
<td>Advanced Seminar in Geomorphology</td>
<td>W2</td>
<td>4</td>
<td>Master's Thesis Credit will be granted for only one of GERM 506 or GERN 508. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 10:00 a.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>GEDS_V 506-201</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>4</td>
<td>Pass/Fail. Restricted to MSc in Geography students. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GEDS_V 506-301</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>4</td>
<td>Pass/Fail. Restricted to MSc in Geography students. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GEDS_V 507-101</td>
<td>Master's Thesis</td>
<td>W2</td>
<td>4</td>
<td>Pass/Fail. Restricted to MSc in Geography students. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>GERM_V 301-101</td>
<td>Learning German 1</td>
<td>W1</td>
<td>1</td>
<td>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</td>
</tr>
<tr>
<td>GERM_V 301-102</td>
<td>Learning German 1</td>
<td>W1</td>
<td>1</td>
<td>In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>GERM_V 301-103</td>
<td>Learning German 1</td>
<td>W1</td>
<td>1</td>
<td>In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>GERM_V 301-104</td>
<td>Learning German 1</td>
<td>W1</td>
<td>1</td>
<td>In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>GERM_V 301-105</td>
<td>Learning German 1</td>
<td>W1</td>
<td>1</td>
<td>In Person Learning Tue Thu 5:00 p.m. - 6:30 p.m.</td>
</tr>
<tr>
<td>GERM_V 301-106</td>
<td>Learning German 1</td>
<td>W1</td>
<td>1</td>
<td>In Person Learning Tue Thu 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>GERM_V 301-107</td>
<td>Learning German 1</td>
<td>W1</td>
<td>1</td>
<td>In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
</tr>
</tbody>
</table>
GERN_V 401-101  GERM_V 401 101 German through Critical Contemporary Topics W1 Credit will be granted for only one of GERM 400 or GERM 401. Equivalency: GERM400
Discussion and analysis of current issues in German speaking societal context. Written and verbal conversations about cultural, societal topics focusing advanced competence. Continuation of GERM 304. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 400 or GERM 401. Equivalency: GERM400
In Person Learning Thu Tue 3:30 p.m. - 5:00 p.m.

GMST_V 121-101  GMST_V 121 101 Fairy Tales and Popular Culture W1 Credit will be granted for only one of GERM 121 or GMST 121. Equivalency: GMST121
Explain folk and fairy tales from the German-speaking tradition and their adaptations. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 121 or GMST 121. Equivalency: GMST121
In Person Learning Arranged Arranged

GMST_V 121-201  GMST_V 121 201 Fairy Tales and Popular Culture W2 Credit will be granted for only one of GERM 121 or GMST 121. Equivalency: GMST121
In Person Learning Mid Wed 12:30 p.m. - 2:00 p.m.

GMST_V 274-101  GMST_V 274 101 The Frankfurt School W1 Credit will be granted for only one of GERM 274 or GMST 274. Equivalency: GERM274
Exposition 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.
In Person Learning Mid Wed 9:30 a.m. - 11:00 a.m.

GMST_V 335-101  GMST_V 335 101 German Cinema W1 Credit will be granted for only one of GERM 335 or GMST 335. Equivalency: GMST335
Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 335 or GMST 335. Equivalency: GMST335
Multi-access Learning Tue Thu 3:30 p.m. - 5:00 p.m.

GMST_V 335-102  GMST_V 335 102 German Cinema W1 Credit will be granted for only one of GERM 335 or GMST 335. Equivalency: GMST335
Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 335 or GMST 335. Equivalency: GMST335
In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

GMST_V 340-101  GMST_V 340 101 Germanophone literature before 3900 W1 Credit will be granted for only one of GERM 340 or GMST 340. Equivalency: GMST340
Reading and discussion of selected works from German-speaking societies from the Middle Ages to 1800. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 340 or GMST 340. Equivalency: GMST340
Multi-access Learning Tue Thu 3:30 p.m. - 5:00 p.m.

GMST_V 342-101  GMST_V 342 101 Hesse and East Germanophone Culture and literature before 1370 W1 Credit will be granted for only one of GERM 342 or GMST 342. Equivalency: GMST342
Hesse and East Germanophone Culture and literature before 1370
Multi-access Learning Tue Thu 3:30 p.m. - 5:00 p.m.

GMST_V 420-A_101  GMST_V 420  A_101 Studies in Modern German-speaking Culture W2 Credit will be granted for only one of GERM 420 or GMST 420. Equivalency: GMST420
Topics of special interest, varying from year to year. Find out more at https://cenes.ubc.ca/courses/. A maximum of 6 credits will be granted for GERM 420 or GMST 420. Equivalency: GMST420
In Person Learning Arranged Arranged

GMST_V 420-A_201  GMST_V 420  A_201 Studies in Modern German-speaking Culture W2 Credit will be granted for only one of GERM 420 or GMST 420. Equivalency: GMST420
In Person Learning Mid Wed 9:30 a.m. - 11:00 a.m.

GMST_V 424-201  GMST_V 424 201 Selected Issues in German-speaking Culture W2 Credit will be granted for only one of GERM 424 or GMST 424. Equivalency: GMST424
In depth study of one topic from German-speaking cultural history, varying from year to year. Find out which topic will be explored in the current or coming year at https://cenes.ubc.ca/courses/. A maximum of 6 credits will be granted for GERM 424 or GMST 424. Equivalency: GMST424
In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.

GMST_V 440-A_201  GMST_V 440  A_201 Selected topics in Germanophone literature W2 Credit will be granted for only one of GERM 440 or GMST 440. Equivalency: GMST440
In depth study of one topic from German-speaking cultural history, varying from year to year. Find out which topic will be explored in the current or coming year at https://cenes.ubc.ca/courses/. A maximum of 6 credits will be granted for GERM 440 or GMST 440. Equivalency: GMST440
In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.

GMST_V 445-201  GMST_V 445 201 Words and Music in Germanophone Literature W2 Credit will be granted for only one of GERM 445 or GMST 445. Equivalency: GMST445
Individual works and genres in which words and music together form a whole. Possible topics include the Liederhymne, the Volkslied, the Romantic Lied and lichts 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 https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 445 or GMST 445. Equivalency: GMST445
Multi-access Learning Thu Tue 2:00 p.m. - 3:30 p.m.

GMST_V 475-101  GMST_V 475 101 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 https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 475 or GMST 475. Equivalency: GMST475
In Person Learning Thu Tue 3:30 p.m. - 6:30 p.m.

GMST_V 500-A_101  GMST_V 500  A_101 German Studies Research Methods W1 Credit will be granted for only one of GERM 500 or GMST 500. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM500
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: GERM500
In Person Learning Mon 2:00 p.m. - 5:00 p.m.

GMST_V 500-B_201  GMST_V 500  B_201 German Studies Research Methods W2 Credit will be granted for only one of GERM 500 or GMST 500. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM500
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: GERM500
In Person Learning Mon 2:00 p.m. - 5:00 p.m.

GMST_V 506-A_101  GMST_V 506  A_101 Intercultural Competence W1 Credit will be granted for only one of GERM 506 or GMST 506. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM506
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: GERM506
In Person Learning Wed 2:00 p.m. - 5:00 p.m.

GMST_V 517-A_101  GMST_V 517  A_101 Studies in the Literature of the 19th Century W1 Credit will be granted for only one of GERM 517 or GMST 517. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM517
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: GERM517
Multi-access Learning Tue Thu 3:30 p.m. - 6:30 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: GERM521
In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

GMST_V 531-D_101  GMST_V 531  D_101 Special Topics W1 Credit will be granted for only one of GERM 531 or GMST 531. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM531
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: GERM531
In Person Learning Arranged Arranged

GMST_V 547-B_101  GMST_V 547  B_101 Guided Research W1 Credit will be granted for only one of GERM 547 or GMST 547. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM547
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: GERM547
In Person Learning Arranged Arranged
This course is not eligible for Credit/D/Fail grading.

...
GREK_V 502-B_001 GREK_V 502 B R_001 Greek Verse W1 Epic, tragedy and/or comedy. A maximum of 12 credits can be granted for either one of or any combination of GREK 403, GREK 502. This course is not eligible for Credit/No Credit grading.

GREK_V 503-C_001 GREK_V 503 C C_001 Studies in Ancient Greek Prose and Verse W2 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/No Credit grading.

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 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] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 290-A_102 GRS_V 290 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 prior to studying abroad. [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 290-A_103 GRS_V 290 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 prior to studying abroad. [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 290-A_104 GRS_V 290 A A_104 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 prior to studying abroad. [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 290-A_001 GRS_V 290 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 prior to studying abroad. [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 290-A_002 GRS_V 290 A A_002 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 prior to studying abroad. [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 290-A_003 GRS_V 290 A A_003 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 prior to studying abroad. [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

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 BIO 112, BIO 121, BIOS 140.

GRS_V 300-A_001 GRS_V 300 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 prior to studying abroad. [0-0-2] Prerequisite: GRS 290.

GRS_V 300-A_102 GRS_V 300 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 prior to studying abroad. [0-0-2] Prerequisite: GRS 290.

GRS_V 300-A_103 GRS_V 300 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 prior to studying abroad. [0-0-2] Prerequisite: GRS 290.

GRS_V 300-A_104 GRS_V 300 A A_104 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 prior to studying abroad. [0-0-2] Prerequisite: GRS 290.

GRS_V 300-A_001 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_102 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_103 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_104 GRS_V 300 A A_104 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_001 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_102 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_103 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_104 GRS_V 300 A A_104 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_001 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_102 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_103 GRS_V 300 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GRS_V 300-A_104 GRS_V 300 A A_104 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 prior to studying abroad. [0-0-2; 0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

GREK_V 300-001 GREK_V 300 B B_001 Global Issues in Cultural Context 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.

GREK_V 307-A_001 GREK_V 307 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.

GREK_V 307-A_002 GREK_V 307 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.

GREK_V 307-B_003 GREK_V 307 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.

GREK_V 307-B_004 GREK_V 307 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.
Global Issues in Cultural Context

An overview of intersectional feminist debates and theoretical traditions. 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.

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.

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.

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: GRS 401.

Interdisciplinary exploration of the ways gender, class, sexuality and race shape modern histories in Canada, and transnationally, from 1920 to the present.

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. Prerequisite: GRS 400.

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. Prerequisite: GRS 400.

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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. Prerequisite: GRS 400.
GRSJ 226-C_001  
226  
C  
C_C001  
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 226-E_004  
GRSJ_V  
224  
F  
F_B0A  
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 226-F_008  
GRSJ_V  
224  
F  
F_B0C  
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 226-F_006  
GRSJ_V  
224  
F  
F_B0C  
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 225-101  
225  
101  
Youth Activism and Social Justice  
W1  
A critical engagement with major issues, debates, and policies in feminist and social justice scholarship through an exploration of youth movements with a focus on activists, popular culture, digital activism, hate cultures, and activism by and for youth.  
In Person Learning  
Tue Thu  
2:00 p.m. - 3:30 p.m.

GRSJ 226-201  
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. - 4:30 p.m.

GRSJ 230-101  
230  
101  
Gender, Race, Sexuality, and Representation in Modern Asia  
W1  
The complex relationship 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. - 3:30 p.m.

GRSJ 235-201  
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 300-101  
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 300-201  
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 300-90A  
GRSJ_V  
300  
90A  
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 300-90C  
GRSJ_V  
300  
90C  
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 301-201  
GRSJ_V  
301  
201  
Gender, Race and Indigeneity in Canada  
W2  
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 302-101  
GRSJ_V  
302  
101  
Pedagogies of Social Justice  
W2  
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. - 3:30 p.m.

GRSJ 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 as 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 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 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 306-101  
GRSJ_V  
306  
101  
Globalization and Social Justice: Gender, Race, and Sexuality in International Politics  
W2  
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 307-201  
GRSJ_V  
307  
201  
Gender, Race, Sexuality, and Popular Culture  
W2  
Gender, race, sexuality, and popular culture 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 308-101  
GRSJ_V  
308  
201  
Creativity from the Margins  
W2  
Recommended pre-requisites: any of GRSJ 101, GRSJ 102 or third-year standing.  
In Person Learning  
Tue Thu  
3:30 p.m. - 5:00 p.m.

GRSJ 310-101  
GRSJ_V  
310  
101  
Gender, Race, Social Justice and Health  
W1  
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 311-101  
GRSJ_V  
311  
201  
African/Black Women in the Americas  
W2  
Interdisciplinary survey of gendered and historical experiences 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  
3:00 p.m. - 5:00 p.m.

GRSJ 315-101  
GRSJ_V  
315  
201  
Critical Race Theories  
W2  
Critical theories of racial and cultural difference. Initial formulations of theses against scientific racism and their later transformation by historical, social, and global-historical accounts of racial subjugation.  
In Person Learning  
Mon Wed  
1:00 p.m. - 2:00 p.m.

GRSJ 350-101  
GRSJ_V  
316  
101  
Gender and Indigeneity in Canada  
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. - 3:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Mode</th>
<th>Days</th>
<th>Time</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRSJ 320-201</td>
<td>Feminist Anti-Racist Pedagogies</td>
<td>In Person Learning</td>
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<tr>
<td>GRSJ 325-201</td>
<td>Anti-colonial and Feminist Qualitative Methodologies</td>
<td>In Person Learning</td>
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<tr>
<td>GRSJ 326-201</td>
<td>The Politics of Gender, Families, and Nation-Building</td>
<td>In Person Learning</td>
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<tr>
<td>GRSJ 327-201</td>
<td>Theories of Representation and Difference</td>
<td>In Person Learning</td>
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<tr>
<td>GRSJ 328-201</td>
<td>Theories of Intersexualité</td>
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<tr>
<td>GRSJ 330-201</td>
<td>Body, Gender and Society</td>
<td>In Person Learning</td>
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<tr>
<td>GRSJ 410-201</td>
<td>Religious Sufism</td>
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</tr>
<tr>
<td>GRSJ 415-201</td>
<td>Critical raced and Anti-Colonial Feminist Approaches</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>201</td>
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<tr>
<td>GRSJ 420-201</td>
<td>Advanced Research Seminar</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>210</td>
</tr>
<tr>
<td>GRSJ 425-A_201</td>
<td>Special Topics in Gender, Race, and Sexuality</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>A_201</td>
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<tr>
<td>GRSJ 425-B_201</td>
<td>Special Topics in Gender, Race, and Sexuality</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>B_201</td>
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<tr>
<td>GRSJ 425-C_201</td>
<td>Special Topics in Gender, Race, and Sexuality</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>C_201</td>
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<tr>
<td>GRSJ 430-A_101</td>
<td>Directed Studies</td>
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<tr>
<td>GRSJ 430-B_101</td>
<td>Directed Studies</td>
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<tr>
<td>GRSJ 430-C_101</td>
<td>Directed Studies</td>
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<td>GRSJ 430-D_101</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>D_101</td>
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<tr>
<td>GRSJ 430-E_101</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td>E_101</td>
</tr>
<tr>
<td>GRSJ 430-F_101</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td>F_101</td>
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<tr>
<td>GRSJ 430-G_101</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td>G_101</td>
</tr>
<tr>
<td>GRSJ 440-A_201</td>
<td>Decolonizing Praxis: A Practicum in Social Justice</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>A_201</td>
</tr>
<tr>
<td>GRSJ 450-001</td>
<td>International Issues in Social Justice and Equality Studies</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>12:00 p.m. - 3:00 p.m.</td>
<td>001</td>
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<tr>
<td>GRSJ 450-101</td>
<td>Issues in Decolonizing and Feminist Methodologies</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>101</td>
</tr>
<tr>
<td>GRSJ 452-001</td>
<td>Issues in Gender, Sexuality, and Critical Race Theories</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>12:00 p.m. - 3:00 p.m.</td>
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**Course Descriptions:**

- **What is History?**
  - 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.

- **Biblical Hebrew**
  - An introduction to the Hebrew language, with an introduction to vocabulary and grammar, and the reading of biblical texts in the original.
  - An introduction to the Hebrew language, 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.

- **Biophysical Dynamics of the Marine-Terrestrial Interface**
  - An examination 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.

- **Ecological Economics**
  - 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 impacts from our political realities.

- **Community Planning and Development for Resilience**
  - Ecosystem-Based Management Seminar

- **Introduction to Resilience Theory in Community**
  - Ecological Economics

- **Re-Storying History: Indigenous Perspective**
  - Exploring 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.

- **Language and Cultural Continuity**
  - 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.

- **Community Planning and Development for Resilience**
  - Community Planning and Development for Resilience

- **Ecological Economics**
  - 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 impacts from our political realities.
HIST_V 103-1A  HIST_V 103-1B  World History Since 1900  W1-2  International relations; changes in the 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  12:00 p.m. - 1:00 p.m.

HIST_V 103-1B  HIST_V 103-1C  World History Since 1900  W1-2  International relations; changes in the 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 103-1C  HIST_V 103-1D  World History Since 1900  W1-2  International relations; changes in the 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  2:00 p.m. - 3:00 p.m.

HIST_V 103-1D  HIST_V 103-1E  World History Since 1900  W1-2  International relations; changes in the 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 103-1E  HIST_V 103-1F  World History Since 1900  W1-2  International relations; changes in the 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 103-1F  HIST_V 103-1G  World History Since 1900  W1-2  International relations; changes in the 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 103-1G  HIST_V 103-1H  World History Since 1900  W1-2  International relations; changes in the 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_11A  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. - 6:00 p.m.

HIST_V 104-A_11A  HIST_V 104-A_11B  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_11B  HIST_V 104-A_11C  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. - 6:00 p.m.

HIST_V 104-A_11C  HIST_V 104-A_11D  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_11D  HIST_V 104-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. - 3:00 p.m.

HIST_V 104-E_101  HIST_V 104-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  Wed  2:00 p.m. - 3:00 p.m.

HIST_V 104-E_101  HIST_V 104-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  9:30 a.m. - 11:00 a.m.

HIST_V 104-E_101  HIST_V 104-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  Wed  9:30 a.m. - 11:00 a.m.

HIST_V 105-B_201  HIST_V 105-B_201  Contemporary Issues in Historical Perspective  W2  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  9:30 a.m. - 11:00 a.m.

HIST_V 105-B_201  HIST_V 105-B_201  Contemporary Issues in Historical Perspective  W2  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  Thu  9:30 a.m. - 11:00 a.m.

HIST_V 105-B_201  HIST_V 105-B_201  Contemporary Issues in Historical Perspective  W2  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  12:00 p.m. - 1:30 p.m.

HIST_V 105-C_207  HIST_V 105-C_207  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  11:00 a.m. - 12:30 p.m.

HIST_V 105-C_207  HIST_V 105-C_207  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 105-L1A  HIST_V 105-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  Fri  12:00 p.m. - 1:00 p.m.

HIST_V 105-L1D  HIST_V 105-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.
In Person Learning
Mon 106 History of Europe
Wed
In Person Learning
A L2D Gateway to the Middle Ages
L2C Fri
Fri History Through Photographs
W1
Mon Arranged
In Person Learning
106 In Person Learning
W2
W2 Global Indigenous Histories
History of Europe
In Person Learning
1:00 p.m. - 2:00 p.m.
A_L1E
In Person Learning
In Person Learning
220 W2
106 Arranged
201 2:00 p.m. - 3:30 p.m.
Fri A 106 In Person Learning
History of Europe
Global Environmental History
2:00 p.m. - 3:00 p.m.
In Person Learning
W1 1:00 p.m. - 2:00 p.m.
Fri A_L1D
Mon Global Environmental History
A 201 10:00 a.m. - 11:00 a.m.
L01
108 History Through Photographs
W2
W2 2:00 p.m. - 3:30 p.m.
W2
W2
Thu 1:00 p.m. - 2:00 p.m.
201 A_L1F
W1
L04 In Person Learning
A_L1C
W2
W2
Friday: 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.
W2
W2
Friday: 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.
W2
W2
History Through Photography
201 201 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.
W2
Multi-access Learning Mon 9:30 a.m. - 11:00 a.m.
W2
History Through Photography
201 201 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.
W2
In Person Learning Wed 10:00 a.m. - 11:00 a.m.
W2
History Through Photography
201 201 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.
W2
In Person Learning Mon 9:30 a.m. - 11:00 a.m.
W2
History Through Photography
201 201 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.
W2
In Person Learning Wed 10:00 a.m. - 11:00 a.m.
W2
History Through Photography
201 201 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.
W2
In Person Learning Fri 10:00 a.m. - 11:00 a.m.
W2
History Through Photography
201 201 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.
W2
In Person Learning Fri 12:00 p.m. - 1:00 p.m.
W2
History Through Photography
201 201 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.
W2
In Person Learning Fri 1:00 p.m. - 2:00 p.m.
W2
Gateway to the Middle Ages.
202 B R 101 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.
W2
Gateway to the Middle Ages.
202 B R 101 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.
W2
History Through Video Games
204 201 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.
W2
History of Europe
220 A A 201 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.
W2
History of Europe
220 A A 14C 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.
W2
History of Europe
220 A A 13D 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 12:30 p.m. - 1:50 p.m.
W2
History of Europe
220 A A 13E 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. - 2:30 p.m.
W2
History of Europe
220 A A 11F 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. - 2:30 p.m.
Introduction to Public History in Canada: Confronting the Canadian Past

History of Canada: Moments that Matter

Health, Illness and Medicine I: From the Ancient World to the Early Modern Period

History of Europe

History of the United States

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.

Health, Illness and Medicine I: From the Ancient World to the Early Modern Period

Health, Illness and Medicine II: From the Ancient World to the Early Modern Period

Health, Illness and Medicine III: From the Ancient World to the Early Modern Period

Health, Illness and Medicine IV: From the Ancient World to the Early Modern Period
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

HIST_V 240-1A  
HIST_V 240-1A  
HIST_V 240-1A  
HIST_V 240-1A  
HIST_V 240-1A  

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

HIST_V 240-1B  
HIST_V 240-1B  
HIST_V 240-1B  
HIST_V 240-1B  
HIST_V 240-1B  

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

HIST_V 240-1C  
HIST_V 240-1C  
HIST_V 240-1C  
HIST_V 240-1C  
HIST_V 240-1C  

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

HIST_V 240-1D  
HIST_V 240-1D  
HIST_V 240-1D  
HIST_V 240-1D  
HIST_V 240-1D  

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

HIST_V 250-A_101  
HIST_V 250-A_101  
HIST_V 250-A_101  
HIST_V 250-A_101  
HIST_V 250-A_101  

Latina 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 expository writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonies, and plays.

In Person Learning

HIST_V 250-A_201  
HIST_V 250-A_201  
HIST_V 250-A_201  
HIST_V 250-A_201  
HIST_V 250-A_201  

Latina 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 expository writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonies, and plays.

In Person Learning

HIST_V 250-A_101  
HIST_V 250-A_101  
HIST_V 250-A_101  
HIST_V 250-A_101  
HIST_V 250-A_101  

Latina 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 expository writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonies, and plays.

In Person Learning

HIST_V 252-101  
HIST_V 252-101  
HIST_V 252-101  
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 slave revolution to the present.

In Person Learning

HIST_V 256-101  
HIST_V 256-101  
HIST_V 256-101  
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

HIST_V 256-102  
HIST_V 256-102  
HIST_V 256-102  
HIST_V 256-102  
HIST_V 256-102  

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

HIST_V 256-103  
HIST_V 256-103  
HIST_V 256-103  
HIST_V 256-103  
HIST_V 256-103  

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

HIST_V 256-104  
HIST_V 256-104  
HIST_V 256-104  
HIST_V 256-104  
HIST_V 256-104  

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

HIST_V 260-101  
HIST_V 260-101  
HIST_V 260-101  
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 300 or PHIL 300. Equivalency: PHIL 260

In Person Learning
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Type</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 260, 260-101</td>
<td>Science and Society in the Contemporary World</td>
<td>0.5</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fit</td>
</tr>
<tr>
<td>HIST 260-102</td>
<td>Science and Society in the Contemporary World</td>
<td>0.5</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fit</td>
</tr>
<tr>
<td>HIST 260-103</td>
<td>Science and Society in the Contemporary World</td>
<td>0.5</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fit</td>
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<tr>
<td>HIST 270-A, 270-101</td>
<td>History of British Columbia</td>
<td>3.0</td>
<td>W1</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 270-A, 270-101</td>
<td>History of British Columbia</td>
<td>3.0</td>
<td>W1</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 271-101</td>
<td>Japan and Global History, 1550 - 1850</td>
<td>1.0</td>
<td>W1</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 271-101</td>
<td>Japan and Global History, 1550 - 1850</td>
<td>1.0</td>
<td>W1</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 300-201</td>
<td>Vikings: Then and Now</td>
<td>1.0</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 302-001</td>
<td>History of the Indigenous Peoples of North America</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
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<tr>
<td>HIST 302-101</td>
<td>History of the Indigenous Peoples of North America</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 305-101</td>
<td>History of British Columbia</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST 305-201</td>
<td>History of British Columbia</td>
<td>1.0</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 310-201</td>
<td>The British Empire after 1815</td>
<td>1.0</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST 311-201</td>
<td>Africa from Imperialism to Independence</td>
<td>1.0</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST 311-101</td>
<td>Africa from Imperialism to Independence</td>
<td>1.0</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>HIST 315-101</td>
<td>Britain 1760-1850</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 319-101</td>
<td>Britain, 1945 to the Present</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 319-1A</td>
<td>Britain, 1945 to the Present</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Online Learning</td>
</tr>
<tr>
<td>HIST 321-B, 321-101</td>
<td>Human Tutorial</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 321-D, 321-101</td>
<td>Human Tutorial</td>
<td>1.0</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST 323-101</td>
<td>Empires, Wars, and Revolutions in Europe and the Americas, 1763-1858</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>HIST 324-201</td>
<td>Complications of a Global Imperial System</td>
<td>1.0</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>HIST 325-101</td>
<td>Canada 1854-1945: Boer, Bunt, and War</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>HIST 326-101</td>
<td>Canada Since 1845: Affluence and Anxiety in the Atomic Age</td>
<td>1.0</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
</tr>
</tbody>
</table>

The courses listed above cover a wide range of topics in history, from the history of North America and the British colonial empire to the impact of globalization and modernity on the world. Each course is designed to provide a comprehensive understanding of the historical developments and their implications for contemporary society.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Credits</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>HIST_V 327-201</td>
<td>HIST_V</td>
<td>327</td>
<td>Colonial America - Encountering and Settlement, 1607 - 1763</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>HIST_V 329-101</td>
<td>HIST_V</td>
<td>329</td>
<td>Heroes, Rebels, Villains: The People Who Shaped Canada</td>
<td>W1</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>HIST_V 330-101</td>
<td>HIST_V</td>
<td>330</td>
<td>History of the Global Financial Order</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Multi-access Learning</td>
<td>Arranged</td>
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<tr>
<td>HIST_V 333-A_101</td>
<td>HIST_V</td>
<td>333-A</td>
<td>A_101 Third-Year Honours Seminar</td>
<td>W1</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>HIST_V 339-201</td>
<td>HIST_V</td>
<td>339</td>
<td>Modern Jewish History</td>
<td>W1</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>HIST_V 342-201</td>
<td>HIST_V</td>
<td>342</td>
<td>The Soviet Union</td>
<td>W1</td>
<td>2:30 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 343-101</td>
<td>HIST_V</td>
<td>343</td>
<td>201 History of the United States, 1860-1945</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>HIST_V 344-201</td>
<td>HIST_V</td>
<td>344</td>
<td>The Ottoman Empire</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>HIST_V 345-202</td>
<td>HIST_V</td>
<td>345</td>
<td>202 American Modernity: The United States, 1860-1945</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 350-001</td>
<td>HIST_V</td>
<td>350</td>
<td>Modern Middle Eastern History</td>
<td>W1</td>
<td>2:30 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 350-002</td>
<td>HIST_V</td>
<td>350</td>
<td>The Soviet Union</td>
<td>W1</td>
<td>2:30 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 350-003</td>
<td>HIST_V</td>
<td>350</td>
<td>American Revolution</td>
<td>W1</td>
<td>2:30 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 352-101</td>
<td>HIST_V</td>
<td>352</td>
<td>Modern Middle Eastern History</td>
<td>W1</td>
<td>2:30 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 353-201</td>
<td>HIST_V</td>
<td>353</td>
<td>The Rise and Fall of the Ottoman Empire</td>
<td>W2</td>
<td>1:30 p.m. - 2:30 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 354-201</td>
<td>HIST_V</td>
<td>354</td>
<td>The United States Since 1945: The Limits of Power</td>
<td>W1</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 356-201</td>
<td>HIST_V</td>
<td>356</td>
<td>The United States Since 1945: The Limits of Power</td>
<td>W1</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
</tbody>
</table>

**Course Descriptions:**

- **Colonial America - Encountering and Settlement, 1607 - 1763:** Encounters between Europeans, 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.
- **Heroes, Rebels, Villains: The People Who Shaped Canada:** Canadian history through the lens of individual people’s lives and their social impact. Themes include race, class, gender, sexuality, indigeneity, colonization, slavery, immigration, moral regulation, and revolution.
- **History of the Global Financial Order:** Origins and transformation of the global financial order (18th century onward) in relation to war, state building, international political economy, and colonialism.
- **Third-Year Honours Seminar:** The United States Since 1945: The Limits of Power
- **Modern Jewish History:** 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.
- **American Modernity: The United States, 1860-1945:** 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.
- **The Soviet Union:** The history of African-Americans from the Civil War and emancipation through the present. Topics include the Jim Crow system, the Nation of Islam, the Civil Rights Movement, and the current economic and political status of African Americans.
- **Modern Middle Eastern History:** The history of African-Americans from the Civil War and emancipation through the present. Topics include the Jim Crow system, the Nation of Islam, the Civil Rights Movement, and the current economic and political status of African Americans.
- **The Rise and Fall of the Ottoman Empire:** The rise and fall of the Ottoman Empire; themes include Islamic law, politics, art, culture, gender relations, and the influence of religion on statecraft.
- **The United States Since 1945: The Limits of Power:** Canadian history through the lens of individual people’s lives and their social impact. Themes include race, class, gender, sexuality, indigeneity, colonization, slavery, immigration, moral regulation, and revolution.
<table>
<thead>
<tr>
<th>CRN</th>
<th>Register by</th>
<th>Days</th>
<th>Time</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>357</td>
<td>201</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>History of Mexico</td>
</tr>
<tr>
<td>362</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>The Golden Age</td>
</tr>
<tr>
<td>363</td>
<td>201</td>
<td>W2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>Europe in the Early Middle Ages</td>
</tr>
<tr>
<td>364</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Europe in the Late Middle Ages</td>
</tr>
<tr>
<td>365</td>
<td>201</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Europe during the Renaissance</td>
</tr>
<tr>
<td>366</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Europe during the Reformation</td>
</tr>
<tr>
<td>368</td>
<td>101</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Europe in the 18th Century</td>
</tr>
<tr>
<td>369</td>
<td>101</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Korea Since 1860</td>
</tr>
<tr>
<td>370</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Europe Since 1950</td>
</tr>
<tr>
<td>371</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Europe Since 1950</td>
</tr>
<tr>
<td>372</td>
<td>A_A201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Modern Japanese History Since 1840</td>
</tr>
<tr>
<td>376</td>
<td>A  A_201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>History of Early China</td>
</tr>
<tr>
<td>377</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>History of Later Imperial China</td>
</tr>
<tr>
<td>380</td>
<td>A  A_201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>The Making of Modern China: Nationalism, War, Revolution</td>
</tr>
<tr>
<td>381</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Imperialism and Nationalism in Southeast Asia</td>
</tr>
<tr>
<td>382</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Imperialism and Nationalism in Southeast Asia</td>
</tr>
<tr>
<td>383</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Post-Colonial Southeast Asia</td>
</tr>
<tr>
<td>385</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>India from Raj to Republic</td>
</tr>
<tr>
<td>386</td>
<td>A  A_201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Korea Since 1860</td>
</tr>
<tr>
<td>388</td>
<td>C  C_201</td>
<td>W1-2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Korea Since 1860</td>
</tr>
<tr>
<td>389</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>History of Later Imperial China</td>
</tr>
<tr>
<td>399</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>History of Later Imperial China</td>
</tr>
<tr>
<td>370</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Europe Since 1950</td>
</tr>
<tr>
<td>370</td>
<td>201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Europe Since 1950</td>
</tr>
<tr>
<td>376</td>
<td>A  A_201</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>History of Early China</td>
</tr>
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<td>201</td>
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</tr>
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<td>385</td>
<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>India from Raj to Republic</td>
</tr>
<tr>
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<td>W2</td>
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<td>C  C_201</td>
<td>W1-2</td>
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<tr>
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<td>101</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>History of Later Imperial China</td>
</tr>
</tbody>
</table>
### U.S. Foreign Relations from Independence to World War II
- **Course Code:** HIST_V 403-A_101
- **Credit Units:** 300
- **Type:** A
- **In Person Learning:** Arranged
- **Weeks:** Arranged

#### Description:
Topics will vary from year to year. Consult the program website https://history.ubc.ca/courses/ for more information. This course is not eligible for Credit/D/Fail grading.

### Scientific Revolution: Circulation of Knowledge in the Early-Modern World
- **Course Code:** HIST_V 402
- **Credit Units:** 202
- **Type:** A
- **In Person Learning:** In Person Learning

#### Description:
The profound transformations of knowledge about the world in the context of the first global encounter of civilizations between 1450 and 1800. Explore the foundations for modern science.

### Problems in International Relations
- **Course Code:** HIST_V 402-A_201
- **Credit Units:** 402
- **Type:** A
- **Online Learning:** Online Learning

#### Description:
Selected topics such as trade, migration, diplomacy, war, migration, colonialism, and post-colonialism. Priority for registration to majors in History or International Relations. This course is not eligible for Credit/D/Fail grading.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-A_201
- **Credit Units:** 403
- **Type:** A
- **In Person Learning:** Arranged

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-B_101
- **Credit Units:** 403
- **Type:** B
- **In Person Learning:** Arranged

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-C_201
- **Credit Units:** 403
- **Type:** C
- **In Person Learning:** Arranged

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-D_201
- **Credit Units:** 403
- **Type:** D
- **In Person Learning:** Arranged

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-E_201
- **Credit Units:** 403
- **Type:** E
- **In Person Learning:** Arranged

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-F_201
- **Credit Units:** 403
- **Type:** F
- **In Person Learning:** Arranged

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-G_201
- **Credit Units:** 403
- **Type:** G
- **In Person Learning:** Arranged

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 403-H_201
- **Credit Units:** 403
- **Type:** H
- **In Person Learning:** Arranged

#### Description:
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.

### The Second World War
- **Course Code:** HIST_V 406
- **Credit Units:** 101

#### Description:
Precursors and consequences of the war: military, political, Cultural, social, and economic history of how the war shaped and reflected its global context. Themes include totalitarianism, genocide, and imperialism and decolonization.

### U.S. Foreign Relations from Independence to World War II
- **Course Code:** HIST_V 408
- **Credit Units:** 101

#### Description:
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.

### U.S. Foreign Relations from Independence to World War II
- **Course Code:** HIST_V 408-L01
- **Credit Units:** 408

#### Description:
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.

### Seminar in the History of International Relations
- **Course Code:** HIST_V 409
- **Credit Units:** 201

#### Description:
U.S. Foreign Relations since 1945.

### The Practice of Oral History
- **Course Code:** PHIL_101
- **Credit Units:** 9:00 a.m. - 11:00 a.m.
- **Type:** In Person Learning

#### Description:
The practice, ethics, and politics of oral history. Provides research training, where students design and complete projects based on oral history interviews.

### Environmental History of North America
- **Course Code:** PHIL_201
- **Credit Units:** 206

#### Description:
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 conflict to the end of the twentieth century.

### The Practice of Oral History
- **Course Code:** PHIL_360
- **Credit Units:** 9:00 a.m. - 11:00 a.m.

#### Description:
The practice, ethics, and politics of oral history. Provides research training, where students design and complete projects based on oral history interviews.

### Selected topics in the history of International Relations
- **Course Code:** PHIL_390
- **Credit Units:** 9:00 a.m. - 12:30 p.m.

#### Description:
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.
Questions of war, peace, balance of power, and the evolution of the international system in global context.

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 context.

Questions of war, peace, balance of power, and the evolution of the international system in global context.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Schedule</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST_V 433-001</td>
<td>Fourth-Year Honours Seminar</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 439-201</td>
<td>Politics and Culture in Fin-de-Siecle Europe (1880-1914)</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Explores relationships between politics, culture, and social change in Europe. Topics include the changing role of intellectuals, literary aesthetics, painting, design and the city, origins of psychology.</td>
</tr>
<tr>
<td>HIST_V 445-101</td>
<td>History of the Holocaust</td>
<td>W1</td>
<td>In Person Learning</td>
<td>A study of the systematic effort to destroy European Jews during the Nazi regime, 1933-1945. Topics of special importance include: the motivations and behaviour of the perpetrators; the reactions of the victims; the role of bystanders.</td>
</tr>
<tr>
<td>HIST_V 449-001</td>
<td>Honours Essay</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 469-201</td>
<td>Revolution and Resistance in the Third World</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Revolutionary movements in the Third World during the second half of the twentieth century; the radicalization of anti-colonial nationalism; the impact of anti-colonial radicalism in the developed world; the decline of Marxism as a revolutionary inspiration.</td>
</tr>
<tr>
<td>HIST_V 476-101</td>
<td>Law and Society in the Middle Ages</td>
<td>W1</td>
<td>In Person Learning</td>
<td>The history of law in the Middle Ages, including English common law, civil (Roman) law, and canon law, with special emphasis on the development of each. Confessions of faith are often thought of as one in which the breach is mightier than the sword. In fact, the military was 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 Asian societies.</td>
</tr>
<tr>
<td>HIST_V 488-201</td>
<td>East Asian Military systems and warfare China</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>HIST_V 485-201</td>
<td>Asian Migrant Communities in Vancouver</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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 of Science. Also open to Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 490-M_101</td>
<td>Seminar for Majors in History</td>
<td>W1</td>
<td>In Person Learning</td>
<td>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 Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 490-N_101</td>
<td>Seminar for Majors in History</td>
<td>W1</td>
<td>In Person Learning</td>
<td>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 Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 490-N_201</td>
<td>Seminar for Majors in History</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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 Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 490-T_101</td>
<td>Seminar for Majors in History</td>
<td>W1</td>
<td>In Person Learning</td>
<td>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 Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 490-T_201</td>
<td>Seminar for Majors in History</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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 Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 490-Y_201</td>
<td>Seminar for Majors in History</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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 Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 490-Z_201</td>
<td>Seminar for Majors in History</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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 Honours students. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 493-201</td>
<td>History and Social Relations of Modern Sciences.</td>
<td>W2</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>HIST_V 525-101</td>
<td>Professional Development for Historians</td>
<td>W1</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>HIST_V 547-Q_101</td>
<td>Readings: Special Topics in History</td>
<td>W1</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 547-Q_201</td>
<td>Readings: Special Topics in History</td>
<td>W2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 548-D_101</td>
<td>Historiography</td>
<td>W1</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 549-001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 549-101</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>HIST_V 549-201</td>
<td>Master's Thesis</td>
<td>W2</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Type</td>
<td>CRN</td>
<td>Days</td>
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</tr>
<tr>
<td>HIST_V 575-A_201</td>
<td>Readings in International and Global History</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>HIST_V 581-D_101</td>
<td>Topics in Science, Technology, and Society</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Mon</td>
</tr>
<tr>
<td>HIST_V 585-A_101</td>
<td>Topics in Cultural History</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue</td>
</tr>
<tr>
<td>HIST_V 586-A_101</td>
<td>Topics in Intellectual History</td>
<td>Hybrid Learning</td>
<td>W1</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST_V 588-101</td>
<td>Readings in Environmental History</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu</td>
</tr>
<tr>
<td>HIST_V 595-B_201</td>
<td>Public History</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>HIST_V 598-101</td>
<td>M.A. Research Seminar</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Wed</td>
</tr>
<tr>
<td>HIST_V 599-101</td>
<td>Doctoral Dissertation</td>
<td>Arranged</td>
<td>W1</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 649-001</td>
<td>Doctoral Dissertation</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 649-201</td>
<td>Doctoral Dissertation</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
</tr>
<tr>
<td>HIST_V 699-201</td>
<td>Ph.D. Research Seminar</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
</tr>
<tr>
<td>HPB_V 501-201</td>
<td>Green Building Contemporary Practice</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
</tr>
<tr>
<td>HPB_V 502-101</td>
<td>Regenerative Development</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Fri</td>
</tr>
<tr>
<td>HPB_V 503-201</td>
<td>Whole Building Energy Modelling and Simulation</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>HPB_V 503-701</td>
<td>Whole Building Energy Modelling and Simulation</td>
<td>Online Learning</td>
<td>W2</td>
<td>Arranged</td>
</tr>
<tr>
<td>HPB_V 504-101</td>
<td>Capstone: New Building Energy Systems Design</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu</td>
</tr>
<tr>
<td>HNUU_V 510-001</td>
<td>Research Methods in Human Nutrition</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Arranged</td>
</tr>
<tr>
<td>HNUU_V 510-003</td>
<td>Nutrition Assessment Across the Lifespan</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue, Thu</td>
</tr>
<tr>
<td>HNUU_V 511-001</td>
<td>Business &amp; Entrepreneurship in Dietetics</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Mon, Wed</td>
</tr>
<tr>
<td>HNUU_V 512-002</td>
<td>Indigenous Health in Dietetics</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue</td>
</tr>
<tr>
<td>HNUU_V 513-001</td>
<td>M.S. Seminar</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Fri</td>
</tr>
<tr>
<td>HNUU_V 513-002</td>
<td>M.S. Seminar</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Fri</td>
</tr>
</tbody>
</table>
This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of HUNU 500, HUNU 575, HUNU 579.

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 575, HUNU 576, HUNU 579. Corequisite: HUNU 525.

Restricted to students in the Master of Nutrition and Dietetics graduate program. The credit value for this course will be determined in consultation with the student prior to the registration. 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. [3-0-0] Prerequisite: All of HUNU 540, HUNU 573, HUNU 575.

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.

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 545, HUNU 573, HUNU 575. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of HUNU 540, HUNU 573, HUNU 575.

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 575, HUNU 576, HUNU 579. Corequisite: HUNU 510.

This course is not eligible for Credit/D/Fail grading. Prerequisite: All of HUNU 545, HUNU 573, HUNU 575, HUNU 576, HUNU 579.

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 545, HUNU 573, HUNU 575, HUNU 576, HUNU 579. Corequisite: HUNU 510.

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 545, HUNU 573, HUNU 575, HUNU 576, HUNU 579. Corequisite: HUNU 510.

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 575, HUNU 579. This course is not eligible for Credit/D/Fail grading.

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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.

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Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of HUNU 540, HUNU 573, HUNU 575, HUNU 576, HUNU 579. Corequisite: HUNU 510.

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 575, HUNU 579. Corequisite: HUNU 510.

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, HUNU 576, HUNU 579. Corequisite: HUNU 510.

Restricted to students in the Master of Nutrition and Dietetics graduate program. This course is not eligible for Credit/D/Fail grading.
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

IGEN_V 500-101
IGEN_V 500 101 Pre-Senior European Studies
W1 In Person Learning Min 2 00 p.m. - 5:00 p.m.

IGEN_V 201-201
IGEN_V 201 201 Integrated Technical Communication
W2 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 In Person Learning Thu 11:00 a.m. - 12:00 p.m.

IGEN_V 230-L0A
IGEN_V 230 L0A Introduction to Engineering Design
W1-2 In Person Learning Arranged Arranged

IGEN_V 330-001
IGEN_V 330 001 Intermediate Engineering Design
W1-2 In Person Learning Tue 1:00 p.m. - 2:30 p.m.

IGEN_V 330-DNU_L0A
IGEN_V 330 DNU_L0A Intermediate Engineering Design
W2 In Person Learning Arranged Arranged

IGEN_V 330-002
IGEN_V 330 002 Intermediate Engineering Design
W2 In Person Learning Arranged Arranged

IGEN_V 430-001
IGEN_V 430 001 Advanced Engineering Design Projects
W1-2 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 In Person Learning Wed 1:00 p.m. - 3:00 p.m.

IGEN_V 430-101
IGEN_V 430 101 Pipeline Engineering
W1 In Person Learning Fit 10:00 a.m. - 11:00 a.m.

IGEN_V 451-201
IGEN_V 451 201 Pipeline Systems and Infrastructure
W2 In Person Learning Tue Thu 9:00 a.m. - 10:30 a.m.

IGEN_V 452-201
IGEN_V 452 201 Pipeline Design
W2 In Person Learning Tue Thu 2:30 p.m. - 3:30 p.m.

IGEN_V 453-T2A
IGEN_V 453 T2A Pipeline Design
W2 In Person Learning Fri 12:00 p.m. - 2:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Mode</th>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILS_V 301-101</td>
<td>Indigenous Views of Landscapes</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon-Thur</td>
<td>8:00 a.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>ILS_V 302-101</td>
<td>Community Engagement: Principles, Practices and Protocols</td>
<td>Introduction to working and professionalization in cross-cultural contexts, with a focus on Indigenous governance and the importance of organizational values, cultural practices and protocols, consensus-based decision-making, principles of engagement, conflict resolution and political dynamics.</td>
<td>In Person Learning</td>
<td>Mon-Wed</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ILS_V 304-101</td>
<td>Introduction to Governance</td>
<td>Foundations of governance, with a focus on Indigenous governance in Canada. Topics include traditional governance, self-government and natural resources governance.</td>
<td>In Person Learning</td>
<td>Tue-Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ILS_V 305-201</td>
<td>Ways of Knowing</td>
<td>Foundations for understanding knowledge and collective action in communities. Introduction to techniques for building capacity among members/nations. Prerequisite: ILS 302.</td>
<td>In Person Learning</td>
<td>Tue-Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ILS_V 307-201</td>
<td>Community Capacity Development</td>
<td>Introduction to different techniques commonly used in field surveys, including assessments of landforms, soils, vegetation patterns and cultural features. Prerequisite: ILS 305.</td>
<td>In Person Learning</td>
<td>Mon-Thur</td>
<td>8:00 a.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>ILS_V 309-203</td>
<td>Field Measurements</td>
<td>Indigenous legal orders, Canadian's constitutional framework, treaties and self-government. Topics also cover the international context, and the implications of the evolving legal context for land management.</td>
<td>In Person Learning</td>
<td>Mon-Thur</td>
<td>1:00 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>ILS_V 401-101</td>
<td>Community Conflict Management</td>
<td>Conflict management focusing on power, rights and interests in Indigenous communities. Topics include consensus-based and collaborative approaches.</td>
<td>In Person Learning</td>
<td>Mon-Wed</td>
<td>1:00 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>INDS_V 501-101</td>
<td>Instructional Skills Workshop</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 502-101</td>
<td>Interdisciplinary Studies: Thematic Seminars</td>
<td>Seminars, lectures, and discussions of topics involving several faculties. Contact the interdisciplinary Program for specific topics (<a href="http://www.isgp.ubc.ca">www.isgp.ubc.ca</a>). This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 502-201</td>
<td>Directed Studies</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 503-101</td>
<td>Directed Studies</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-A_001</td>
<td>Master's Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-A_002</td>
<td>Master's Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-A_003</td>
<td>Master's Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-B_001</td>
<td>Master's Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-B_002</td>
<td>Master's Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-B_003</td>
<td>Master's Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-C_001</td>
<td>Doctoral Dissertation</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-C_002</td>
<td>Doctoral Dissertation</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>INDS_V 549-C_003</td>
<td>Doctoral Dissertation</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
</tbody>
</table>
INFO_V 100-001  INFO_V 100 001 (Decoding Information and Why It Matters) W1 Information and data as concepts and aspects of everyday experiences. Creation, sharing, authentication, and asking 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  Thu 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. Introduces network concepts and methods for exploring social and organizational connectivity for work, socializing, and knowledge production. Examines impact of social media on connectivity and social space and place; peer production on authority structures; ubiquitous mobile connectivity on daily life. 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 Design of interactive information systems informed by human capabilities and behavior. Application of contemporary information design principles and practices to the conceptualization, creation, and implementation of real-world prototypes of information objects and applications. Recommended pre-requisite: INFO 100. Prerequisite: INFO 200. In Person Learning  Thu 2:00 p.m. - 5:00 p.m.

INFO_V 300-002  INFO_V 300 002 Informatics and Data Design W2 Design, construction and critique of digital collections from a cultural information perspective. In Person Learning  Thu Thu 10:00 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 foster historically, persistently, or systematically 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. In Person Learning  Tha Arranged Arranged

INFO_V 303-002  INFO_V 303 002 Search 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. In Person Learning  Thu 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, introduce 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 300-201  ISCI_V 300 101 Interdisciplinary Seminar W1 Critical analysis of recent scientific literature that combines disciplines that are integrating their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. [3-0-0] 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 W1 Critical analysis of recent scientific literature that combines disciplines that are integrating their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. [3-0-0] 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 W3 Scaling as a general approach to laws governing the geometry, kinematics and dynamics of systems. Dimensional analysis, symmetry and geometry applied to topics from Biology, Physics, Earth Science and Economics. Prerequisite: Third-year standing in the Faculty of Science. In Person Learning  Mon Wed 2:00 p.m. - 4:00 p.m.

ISCI_V 312-201  ISCI_V 312 101 Symmetry W1 Recognizing symmetry, group 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 9:00 a.m. - 12:00 p.m.

ISCI_V 320-201  ISCI_V 320 201 Research Development Project W2 Using the Darwinian theory of natural selection to explore explanations of infectious diseases, allergic, cancer, mental illness, and other human diseases. Prerequisite: Registration in the Integrated Sciences Program. Please consult the Faculty of Science Credit Exclusion lists: www.uvic.ca/faculties-colleges/science/faculty-science/credit-exclusion-lists [2-0-2] Prerequisite: Registration in the Faculty of Science. In Person Learning  Tue Thu 9:00 a.m. - 2:30 p.m.

ISCI_V 350-201  ISCI_V 350 201 Darwinian Medicine W2 Evolutionary causes, consequences and constraints of human cognition; enhanced encephalization and novel coping capacities throughout the Primate Order, and the emergence of cognitive capacities that define the human species. [3-0-0] Prerequisite: Third-year or higher standing in the Faculty of Science. In Person Learning  Tue Thu 2:00 p.m. - 6:00 p.m.

ISCI_V 351-201  ISCI_V 351 201 Why the Big Brain? The Evolution of Human Cognition W2 Application of systems science encompassing geology, hydrological, ecological, atmospheric sciences, and energy systems approaches to study regional sustainability. [2-0-0] 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 360-201  ISCI_V 360 001 Systems Approaches to Regional Sustainability W1 Application of systems science encompassing geology, hydrological, ecological, atmospheric sciences, and energy systems approaches to study regional sustainability. Prerequisite: Third-year or higher standing in the Faculty of Science. In Person Learning  Mon 6:00 p.m. - 6:00 p.m.

ISCI_V 363-201  ISCI_V 363 201 Field Course: Systems Approaches to Regional Sustainability W2 Systems science approaches encompassing geology, hydrological, ecological, atmospheric sciences, and energy systems approaches to study regional sustainability. Course location will vary; fee payable prior to field course. In Person Learning  Arranged Arranged

ISCI_V 390-201  ISCI_V 390 101 Co-operative Work Placement I W1 Industrial or academic work experience for a minimum of 4 months. Normally taken in Winter Session of third or Summer Session after third year. Technical report required. Restriction to students in the In Co-op program. Prerequisite: One term in ISP. In Person Learning  Arranged Arranged

ISCI_V 390-201  ISCI_V 390 201 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. Restriction to students in the In Co-op program. Prerequisite: One term in ISP. In Person Learning  Arranged Arranged

ISCI_V 390-201  ISCI_V 390 101 Co-operative Work Placement II W1 Industrial or academic work experience for a minimum of 4 months. Technical report required. Restriction to students admitted to the Co-op Program in ISP. Prerequisite: IG2 398. In Person Learning  Arranged Arranged

ISCI_V 390-201  ISCI_V 390 201 Co-operative Work Placement II W2 Industrial or academic work experience for a minimum of 4 months. Technical report required. Restriction to students admitted to the Co-op Program in ISP. Prerequisite: IG2 398. In Person Learning  Arranged Arranged
Beginners' Italian I

ITAL_V 101

12:30 p.m. - 2:00 p.m.

In Person Learning

W2

Directed Studies

ITAL_V 103

11:00 a.m. - 12:00 p.m.

Tue Thu

Arranged

W2

Integrated Sciences Graduating Seminar

ISCI_V 448

12:00 p.m. - 1:00 p.m.

W1

Arranged

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. Credit will be granted for only one of ITAL 101 or ITAL 103.

ITAL_V 103

10:00 a.m. - 11:00 a.m.

W1

Arranged

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. Credit will be granted for only one of ITAL 103 or ITAL 101.

ITAL_V 102

11:00 a.m. - 12:00 p.m.

W1

Arranged

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. Credit will be granted for only one of ITAL 103 or ITAL 101.

ITAL_V 102

10:00 a.m. - 11:00 a.m.

W1

Arranged

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. Credit will be granted for only one ITAL 101 or ITAL 103.

ITAL_V 103

9:00 a.m. - 10:00 a.m.

W1

Arranged

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. Credit will be granted for only one ITAL 101 or ITAL 103.

ITAL_V 101

10:00 a.m. - 11:00 a.m.

W1

Arranged

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. Credit will be granted for only one ITAL 101 or ITAL 103.

ITAL_V 101

9:00 a.m. - 10:00 a.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 104

10:00 a.m. - 11:00 a.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 105

11:00 a.m. - 12:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 102

10:00 a.m. - 11:00 a.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 103

11:00 a.m. - 12:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 101

10:00 a.m. - 11:00 a.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 102

11:00 a.m. - 12:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 103

12:00 p.m. - 1:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 101

1:00 p.m. - 2:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 101

2:00 p.m. - 3:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 102

3:00 p.m. - 4:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.

ITAL_V 101

4:00 p.m. - 5:00 p.m.

W1

Arranged

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. Credit will be granted for only one ITAL 103 or both ITAL 101, ITAL 102.
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.

Fundamental principles of process design for chemical and biological systems to treat water used in 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.

Delivery of major water infrastructure projects from policies to planning and implementation, including schedule, cost, scope, impacts, performance and risk management, independent verification and innovation aspects. Credit will be granted for only one of IWME 506 or CID 513. This course is not eligible for Credit/D/Fail grading. [3-0-1]
<p>| JAPN_V | 100-026 | JAPN_V | 101 | 016 | Beginning Japanese IA | W2 | An introduction to modern spoken and written Japanese with emphasis on both form (grammar and syntax) and functions. Not available for credit to students with JAPN 11 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. |
| JAPN_V | 100-027 | JAPN_V | 101 | 017 | Beginning Japanese IA | W2 | An introduction to modern spoken and written Japanese with emphasis on both form (grammar and syntax) and functions. Not available for credit to students with JAPN 11 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. |
| JAPN_V | 100-066 | JAPN_V | 101 | 066A | Beginning Japanese IA | W1 | An introduction to modern spoken and written Japanese with emphasis on both form (grammar and syntax) and functions. Not available for credit to students with JAPN 11 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. |
| JAPN_V | 100-096C | JAPN_V | 101 | 096C | Beginning Japanese IA | W2 | An introduction to modern spoken and written Japanese with emphasis on both form (grammar and syntax) and functions. Not available for credit to students with JAPN 11 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. |
| JAPN_V | 101-011 | JAPN_V | 101 | 011 | Beginning Japanese IB | W1 | 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 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 101-012 | JAPN_V | 101 | 012 | Beginning Japanese IB | W1 | 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 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 101-021 | JAPN_V | 101 | 021 | 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 160. This course is not eligible for Credit/D/Fail grading. |
| 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 160. This course is not eligible for Credit/D/Fail grading. |
| 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 160. This course is not eligible for Credit/D/Fail grading. |
| 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 160. This course is not eligible for Credit/D/Fail grading. |
| 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 160. This course is not eligible for Credit/D/Fail grading. |
| 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 160. This course is not eligible for Credit/D/Fail grading. |
| 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 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 101-096C | JAPN_V | 101 | 096C | 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 160. This course is not eligible for Credit/D/Fail grading. |
| 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 160 and JAPN 150. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 200-011 | JAPN_V | 200 | 011 | Beginning Japanese IA | 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 11 and/or JAPN 12. Credit will be granted for only one of JAPN 200 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 200-012 | JAPN_V | 200 | 012 | Beginning Japanese IA | 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 11 and/or JAPN 12. Credit will be granted for only one of JAPN 200 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 200-013 | JAPN_V | 200 | 013 | Beginning Japanese IA | 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 11 and/or JAPN 12. Credit will be granted for only one of JAPN 200 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 200-014 | JAPN_V | 200 | 014 | Beginning Japanese IA | 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 11 and/or JAPN 12. Credit will be granted for only one of JAPN 200 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 200-015 | JAPN_V | 200 | 015 | Beginning Japanese IA | 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 11 and/or JAPN 12. Credit will be granted for only one of JAPN 200 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 200-016 | JAPN_V | 200 | 016 | Beginning Japanese IA | 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 11 and/or JAPN 12. Credit will be granted for only one of JAPN 200 or JAPN 260. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 201-021 | JAPN_V | 201 | 021 | Beginning Japanese IB | W2 | Continuation of JAPN 200 (Non-intensive). Credit will be granted for only one of JAPN 201 or JAPN 261. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |
| JAPN_V | 201-022 | JAPN_V | 201 | 022 | Beginning Japanese IB | W2 | Continuation of JAPN 200 (Non-intensive). Credit will be granted for only one of JAPN 201 or JAPN 261. Recommended pre-requisite: one of JAPN 101, JAPN 150, JAPN 160. This course is not eligible for Credit/D/Fail grading. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPN 201-023</td>
<td>Beginning Japanese II A</td>
<td>Continuation of JAPN 200. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 201-024</td>
<td>Beginning Japanese II B</td>
<td>Continuation of JAPN 200. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 201-025</td>
<td>Beginning Japanese II C</td>
<td>Continuation of JAPN 200. Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 260-021</td>
<td>Intensive Beginning Japanese II</td>
<td>Recommended pre-requisites: one of JAPN 102, JAPN 200. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 320-011</td>
<td>Intermediate Japanese I A</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 320-012</td>
<td>Intermediate Japanese I B</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 321-011</td>
<td>Intermediate Japanese I A</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 321-012</td>
<td>Intermediate Japanese I B</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 322-011</td>
<td>Intermediate Japanese II A</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 322-012</td>
<td>Intermediate Japanese II B</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 360-011</td>
<td>Intensive Intermediate Japanese I</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 361-021</td>
<td>Intensive Intermediate Japanese II</td>
<td>Recommended pre-requisites: one of JAPN 210, JAPN 220, JAPN 320. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 400-011</td>
<td>Advanced Modern Japanese: Reading and Writing I</td>
<td>Recommended pre-requisites: one of JAPN 211, JAPN 221, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 401-021</td>
<td>Advanced Modern Japanese: Reading and Writing II</td>
<td>Recommended pre-requisites: one of JAPN 211, JAPN 221, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 402-011</td>
<td>Advanced Modern Japanese: Conversation and Composition I</td>
<td>Recommended pre-requisites: one of JAPN 211, JAPN 221, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 403-021</td>
<td>Advanced Modern Japanese: Conversation and Composition II</td>
<td>Recommended pre-requisites: one of JAPN 211, JAPN 221, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 420-011</td>
<td>Japanese for Professional Life I</td>
<td>Recommended pre-requisites: one of JAPN 211, JAPN 221, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 421-021</td>
<td>Advanced Oral Communication I</td>
<td>Recommended pre-requisites: one of JAPN 211, JAPN 221, JAPN 321, JAPN 360. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>JAPN 450-011</td>
<td>Readings in Modern Japanese Essay</td>
<td>Recommended pre-requisites: one of JAPN 301, JAPN 400. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>Course Code</td>
<td>Section</td>
<td>Title</td>
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<tr>
<td>JRNL 440-001</td>
<td>A_001</td>
<td>Journalism Here and Now</td>
</tr>
<tr>
<td>JRNL 430-001</td>
<td>B_001</td>
<td>Journalism Practice and Standards</td>
</tr>
<tr>
<td>JRNL 425-001</td>
<td>C_001</td>
<td>Integrated Journalism</td>
</tr>
<tr>
<td>JRNL 420-001</td>
<td>D_001</td>
<td>Special Topics in Contemporary Journalism</td>
</tr>
</tbody>
</table>
Structure and function of the skeletal system, muscular system, integumentary system, nervous system, endocrine 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-kinesiology/credit-exclusion-lists. [3-0-0]

Systems Physiology I

W1 4:30 p.m. - 6:30 p.m. In Person Learning Tue 0.60 p.m. - 0.30 a.m.

Systems Physiology I

W2 4:30 p.m. - 6:30 p.m. In Person Learning Tue 10:00 a.m. - 11:00 p.m.

Systems Physiology I

W2 4:30 p.m. - 6:30 p.m. In Person Learning Tue 10:00 a.m. - 11:00 p.m.
Introduction to the political, economic and social basis of leisure and sport; theories and problems. This course is not eligible for Credit/D/Fail grading. (4-0)

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Basic concepts and principles of descriptive and inferential statistics, and distribution-free statistical techniques. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

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.

Statistical distribution of data, sampling theory, research design, hypothesis testing, correlation and regression, and analysis of variance. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Credit/D/Fail grading. [3-0-0] Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.

Credit/D/Fail grading. [3-0-0] Prerequisite: Second-year standing.

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. [3-0-0] Prerequisite: All of KIN 110, KIN 120, KIN 131.

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Basic concepts of descriptive and inferential statistics, and distribution-free statistical techniques. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Introduction to the political, economic and social basis of leisure and sport; theories and problems. This course is not eligible for Credit/D/Fail grading. (4-0)

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Introduction to the political, economic and social basis of leisure and sport; theories and problems. This course is not eligible for Credit/D/Fail grading. (4-0)

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.

Critical evaluation of research studies and methods with emphasis on the physical activity content. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0] Prerequisite: Second-year standing.
**Exercise Physiology I**

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. (2-2-2) Prerequisite: All of KIN 110, KIN 205, KIN 211, KIN 235.

**Exercise Testing and Prescription**

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.

**Creating Effective, Developmentally Appropriate, Physical Activity Learning Environments**

The pedagogical skills and knowledge required to design, and implement, developmentally appropriate physical activity learning environments in a variety of settings. (2-2-0) Prerequisite: One of KIN 140.

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Schedule</th>
<th>Location</th>
<th>Prerequisites</th>
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<tr>
<td>KIN V 215-12D</td>
<td>Exercise Physiology I</td>
<td>W2</td>
<td>1:30 p.m. - 3:30 p.m.</td>
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<td>In Person Learning</td>
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<td>KIN V 262-001</td>
<td>Health Policy and Society</td>
<td>W1</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>KIN V 335</td>
<td>Human Athletic Performance</td>
<td>W1</td>
<td>4:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>KIN V 335</td>
<td>Sensorimotor Control of Human Movement</td>
<td>W1</td>
<td>3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>KIN V 335</td>
<td>Neuromuscular Integration of Human Movement</td>
<td>W1</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>In Person Learning</td>
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<tr>
<td>KIN V 335</td>
<td>Mechanical Properties of Tissue</td>
<td>W2</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<td>In Person Learning</td>
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<tr>
<td>KIN V 335</td>
<td>Exercise Testing and Prescription</td>
<td>W1</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<td>In Person Learning</td>
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<tr>
<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>3:30 p.m. - 5:30 p.m.</td>
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<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>11:00 a.m. - 1:00 p.m.</td>
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<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>1:30 p.m. - 3:30 p.m.</td>
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<td>In Person Learning</td>
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<tr>
<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>W2</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>5:00 p.m. - 7:00 p.m.</td>
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<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<td>In Person Learning</td>
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<tr>
<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<td>In Person Learning</td>
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<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>6:00 p.m. - 8:00 p.m.</td>
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<td>Advanced Applications of Exercise Physiology</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>In Person Learning</td>
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<td>KIN V 335</td>
<td>Advanced Applications of Exercise Physiology</td>
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</table>
Creating Effective, Developmentally Appropriate, Physical Activity Learning Environments

The pedagogical skills and knowledge required to design and implement, developmentally appropriate physical activities learning environments in a variety of settings. [2-0-0] Prerequisite: All of KIN 110, KIN 131, KIN 140, KIN 150, KIN 160, KIN 211.

In Person Learning
Scheduled

Leisure Services for Persons with a Disability

Policy issues relating to leisure opportunities for persons with disabilities. [3-0] Prerequisite: All of KIN 180, KIN 242.

In Person Learning
Mon-Wed Fri
4:00 p.m. - 7:00 p.m.

Foundations of Coaching

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
2:00 p.m. - 6:00 p.m.

Physical Activity and Disability

Physical activity counseling, education, programming principles, exercise considerations, and strategies for promoting inclusive physical activity for people with disabilities. [2-0-0] Prerequisites: KIN 160 and Third-year standing.

In Person Learning
Mon
9:00 a.m. - 11:00 a.m.

Physical Activity and Disability

Physical activity counseling, education, programming principles, exercise considerations, and strategies for promoting inclusive physical activity for people with disabilities. [3-0-0] Prerequisites: KIN 160 and Third-year standing.

In Person Learning
Mon
2:00 p.m. - 6:00 p.m.

Current Topics in Exercise and Health Psychology

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. [4-0-0] Prerequisites: KIN 155 and third-year standing.

In Person Learning
Mon Wed
12:30 p.m. - 2:00 p.m.

Movement Experiences for Young Children

The design and implementation of movement experiences for children in early childhood years. [1-0] Prerequisite: All of KIN 160, KIN 161, KIN 180, KIN 181, KIN 212.

In Person Learning
Mon Thu
9:30 a.m. - 11:00 a.m.

Sport, Peace, and Conflict

Relationships that sport and leisure have with peace, conflict, and social inequality in Canada and internationally. [1-0] Prerequisite: KIN 160.

In Person Learning
Wed
4:00 p.m. - 7:00 p.m.

Leisure, Sport and Popular Culture

Selected aspects of leisure and sport examined in relation to modern social structures and cultures. [3-0] Prerequisite: KIN 160.

In Person Learning
Wed
4:00 p.m. - 7:00 p.m.

Indigenous Sport and Physical Culture in Settlement Canada

Historical and contemporary issues in Canada that shape Indigenous sport and physical activity, health programs, and policies. [4-0] Prerequisite: All of KIN 160, KIN 242.

In Person Learning
Arranged

Indigenous Sport and Physical Culture in Settlement Canada

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 242.

In Person Learning
Arranged

Neuroanatomy of Human Movement

Neuroanatomy of human motion in healthy and clinical populations. [3-0] Prerequisite: All of KIN 110, KIN 131, KIN 151, KIN 152, KIN 153.

In Person Learning
Tue Thu
10:00 a.m. - 12:30 p.m.

Sensori-Motor Control of Human-Balance

Examining the sensory, motor, and biomechanical factors that contribute to human balance control during quiet standing and perturbation tasks to internal and external perturbations. Emphasis on understanding the relationships of neurological control and changes associated with age and disease. [3-0] Prerequisite: All of KIN 110, KIN 131, KIN 151, KIN 211, KIN 216, and third-year standing.

Online Learning
Tue Thu
2:00 p.m. - 3:30 p.m.

Sensori-motor Neuropathology in Movement and Exercise

Concepts in neuropathology related to sensori-motor control of movement and exercise. The focus will be on purely hereditary and acquired neuropathies that result because of either trauma or injury/illness or as it relates to movement control and exercise. [3-0-0] Prerequisite: All of KIN 110, KIN 131, KIN 151, and third-year standing.

In Person Learning
Mon Wed
11:00 a.m. - 12:30 p.m.

Laboratory Investigations in Neuromechanical Kinesiology

Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [2-0] Prerequisite: All of KIN 110, KIN 111, KIN 131, KIN 151, KIN 211, KIN 216.

In Person Learning
Tue
9:30 a.m. - 11:00 a.m.

Laboratory Investigations in Neuromechanical Kinesiology

Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [2-0] Prerequisite: All of KIN 110, KIN 111, KIN 131, KIN 211, KIN 216.

In Person Learning
Arranged

Laboratory Investigations in Neuromechanical Kinesiology

Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [2-0-0] Prerequisite: All of KIN 110, KIN 111, KIN 131, KIN 151, KIN 211, KIN 216.

In Person Learning
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10:30 a.m. - 12:30 p.m.

Laboratory Investigations in Neuromechanical Kinesiology

Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [2-0] Prerequisite: All of KIN 110, KIN 111, KIN 131, KIN 151, KIN 211, KIN 216.

In Person Learning
Wed
12:30 p.m. - 2:30 p.m.

Laboratory Investigations in Neuromechanical Kinesiology

Integration and application of laboratory principles and techniques for experimental investigations of topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. [2-0-0] Prerequisite: All of KIN 110, KIN 111, KIN 131, KIN 151, KIN 211, KIN 216.

In Person Learning
Wed
2:00 p.m. - 6:00 p.m.

Prevention of Sports Injuries

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. - 6:30 p.m.

Prevention of Sports Injuries

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. - 6:30 p.m.

Sport Nutrition

Sports nutrition guidelines, physiological mechanisms of fuel use in the body, nutritional strategies to support weight change, hydration, and ergogenic aids for the needs of special athlete populations. [3-0] Prerequisite: All of KIN 110, KIN 111, KIN 211.

In Person Learning
Tue Thu
6:00 p.m. - 9:30 p.m.
This course is not eligible for Credit/D/Fail grading.

**Special Topics in Kinesiology**

**In Person Learning**

- Mon
- 2:00 p.m. - 5:00 p.m.

**Advanced Seminar in Neuromechanics**

- W1
- Prerequisite: Two of KIN 310, KIN 311, KIN 313, KIN 316, KIN 411, KIN 413. Restricted to students in the BKin program with fourth-year standing.

**Advanced Seminar in Psychology of Movement**

- W1
- Prerequisite: Two of KIN 320, KIN 321, KIN 322, KIN 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

**Recommended prerequisite:** Undergraduate degree in Kinesiology (or related field) including for the acquisition, processing and presentation of data related to human movements.

**Hands-on laboratory course with an emphasis on developing critical computational research skills**

**Undergraduate Program.**

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.

Undergraduate Research Experience in Kinesiology

- Mon Wed
- 2:00 p.m. - 5:00 p.m.
- Restricted to students in the BKin program with third- or fourth-year standing.

Directed Studies in Kinesiology

- W2
- Prerequisite: Restricted to students in the BKin program with third- or fourth-year standing.

Topics examine the role(s) 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 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

Topics examine 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.

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.

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 413. Restricted to students in the BKin program with fourth-year standing.

Topics examine the role(s) 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 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

Topics examine the role(s) 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 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

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.

Topics examine 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.

Topics explore the social, cultural and global context of sport, exercise, physical activity, health, and the body. [3-0] Prerequisite: Two of KIN 320, KIN 321, KIN 322, KIN 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

Topics examine the role(s) 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 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

Topics examine the role(s) 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 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

Topics examine the role(s) 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 323, KIN 325, KIN 420, KIN 424, KIN 426, KIN 428. Restricted to students in the BKin program with fourth-year standing.

Topics will be approached from multiple perspectives in a course designed to explore the interdisciplinary of the field of kinesiology. [3-0] Prerequisite: Restricted to students in the BKin program with fourth-year standing.

Topics will be approached from multiple perspectives in a course designed to explore the interdisciplinary of the field of kinesiology. [3-0] Prerequisite: Restricted to students in the BKin program with fourth-year standing.

This course is not eligible for Credit/D/Fail grading.

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<table>
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<th>Lecture Type</th>
<th>Title</th>
<th>Notes</th>
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<td>KIN-V 517-001</td>
<td>Online Learning</td>
<td>Business of High Performance Sport in Canada</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Directed Studies</td>
<td>Directed Studies</td>
<td>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.</td>
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<td>KIN-V 520-A_002</td>
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<td>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.</td>
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<td>KIN-V 530-B_001</td>
<td>Directed Studies</td>
<td>Directed Studies</td>
<td>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.</td>
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<tr>
<td>KIN-V 530-B_002</td>
<td>Directed Studies</td>
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<td>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.</td>
</tr>
<tr>
<td>KIN-V 564-001</td>
<td>In Person Learning</td>
<td>Psycho-Social Aspects of Physical Activity</td>
<td>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.</td>
</tr>
<tr>
<td>KIN-V 568-001</td>
<td>In Person Learning</td>
<td>Seminar in Human Sensorimotor Control</td>
<td>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.</td>
</tr>
<tr>
<td>KIN-V 570-001</td>
<td>In Person Learning</td>
<td>Research Methods in Kinesiology</td>
<td>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.</td>
</tr>
<tr>
<td>KIN-V 571-001</td>
<td>Qualitative Methods in Sport, Leisure, and Health Studies</td>
<td>Qualitative Methods in Sport, Leisure, and Health Studies</td>
<td>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.</td>
</tr>
<tr>
<td>KIN-V 572-001</td>
<td>Directed Studies</td>
<td>Research Methods for Sport &amp; Health Sciences</td>
<td>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.</td>
</tr>
<tr>
<td>KIN-V 575-001</td>
<td>Principles of Applied Sports Analytics</td>
<td>Principles of Applied Sports Analytics</td>
<td>Technical and applied knowledge in data science and analytics related to high-performance sports. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>KIN-V 585-001</td>
<td>Performance Planning</td>
<td>Performance Planning</td>
<td>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.</td>
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<tr>
<td>KIN-V 585-W01</td>
<td>Performance Planning</td>
<td>Performance Planning</td>
<td>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.</td>
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<tr>
<td>KIN-V 585-W62</td>
<td>Performance Planning</td>
<td>Performance Planning</td>
<td>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.</td>
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<tr>
<td>KIN-V 585-W63</td>
<td>Performance Planning</td>
<td>Performance Planning</td>
<td>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.</td>
</tr>
<tr>
<td>KIN-V 585-W64</td>
<td>Performance Planning</td>
<td>Performance Planning</td>
<td>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.</td>
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<tr>
<td>KIN-V 585-W65</td>
<td>Performance Planning</td>
<td>Performance Planning</td>
<td>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.</td>
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<td>Master's Graduating Paper</td>
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<td>KIN 598-A_002</td>
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<td>KIN 599-W08</td>
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<td>KIN 599-W09</td>
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<tr>
<td>KIN 599-W01</td>
<td>Master's Thesis</td>
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</table>

**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.
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<th>Course Code</th>
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<th>Description</th>
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<th>Credit</th>
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<td>KORN 410-A</td>
<td>A_001 Master's Thesis</td>
<td>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.</td>
<td>W1-2</td>
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<td>KORN 410-B</td>
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**KORN 410-A**

**Course Code:** KORN 410-A  
**Course Title:** A_001 Master's Thesis  
**Description:** 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.  
**Days:** W1-2  
**Time:** 5:00 p.m. - 6:30 p.m.  
**Location:** In Person Learning  
**Instructor:** Arranged  
**Credit:** Arranged  
**Registration Notes:** Arranged

**KORN 410-B**

**Course Code:** KORN 410-B  
**Course Title:** A_002 Doctoral Dissertation  
**Description:** Pass/Fail. This course is not eligible for Credit/D/Fail grading.  
**Days:** W1  
**Time:** 10:30 a.m. - 11:00 a.m.  
**Location:** In Person Learning  
**Instructor:** Arranged  
**Credit:** Arranged  
**Registration Notes:** Arranged

**KORN 409-A**

**Course Code:** KORN 409-A  
**Course Title:** A_003 Doctoral Dissertation  
**Description:** Pass/Fail. This course is not eligible for Credit/D/Fail grading.  
**Days:** W2  
**Time:** 11:30 a.m. - 12:00 p.m.  
**Location:** In Person Learning  
**Instructor:** Arranged  
**Credit:** Arranged  
**Registration Notes:** Arranged

**KORN 409-B**

**Course Code:** KORN 409-B  
**Course Title:** A_004 Doctoral Dissertation  
**Description:** Pass/Fail. This course is not eligible for Credit/D/Fail grading.  
**Days:** W2  
**Time:** 1:00 p.m. - 2:00 p.m.  
**Location:** In Person Learning  
**Instructor:** Arranged  
**Credit:** Arranged  
**Registration Notes:** Arranged

**KORN 409-C**

**Course Code:** KORN 409-C  
**Course Title:** A_005 Doctoral Dissertation  
**Description:** Pass/Fail. This course is not eligible for Credit/D/Fail grading.  
**Days:** W1  
**Time:** 2:00 p.m. - 3:00 p.m.  
**Location:** In Person Learning  
**Instructor:** Arranged  
**Credit:** Arranged  
**Registration Notes:** Arranged
Corequisite: LARC 511.

Landscape design methods and processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LARC 605, LARC 607 and one of LARC 608, LARC 609.

Corequisite: LARC 511.

Landscape design methods and processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LARC 605, LARC 607 and one of LARC 608, LARC 609.

Corequisite: LARC 511.

Landscape design methods and processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LARC 605, LARC 607 and one of LARC 608, LARC 609.

Corequisite: LARC 511.

Landscape design methods and processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LARC 605, LARC 607 and one of LARC 608, LARC 609.

Corequisite: LARC 511.

This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.
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<th>Prerequisite</th>
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<td>Landscape Architecture Design Studio V</td>
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<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.</td>
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<td>LARC_V 505-004</td>
<td>Landscape Architecture Design Studio V</td>
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<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.</td>
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<td>LARC_V 505-005</td>
<td>Landscape Architecture Design Studio V</td>
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<td>LARC_V 512-C_101</td>
<td>Advanced Field Studies in Landscape Architecture</td>
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<td>LARC_V 512-S_101</td>
<td>Introductory Workshop</td>
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<td>LARC_V 512-I_101</td>
<td>Landscape Architecture History I</td>
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<td>LARC_V 512-101</td>
<td>Landscape Architecture Theory</td>
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<td>LARC_V 512-002</td>
<td>Design Research Methods</td>
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<td>LARC_V 513-S_101</td>
<td>Landscape Technologies I</td>
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<td>Landscape Technologies II</td>
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<td>Site Analysis and Planning</td>
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<td>LARC_V 541-002</td>
<td>Landscape Planning and Management</td>
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<td>LARC_V 542-201</td>
<td>Aesthetics and Sustainability</td>
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<td>LARC_V 543-101</td>
<td>Environment and Urban Form</td>
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<td>LARC_V 570-A_101</td>
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<td>204-201</td>
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<td>Graduate Project Part II</td>
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<td>204-11C</td>
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<td>204-11F</td>
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**Introduction to Law and Society**

- Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.

**Research Thesis**

This course is not eligible for Credit/D/Fail grading.

**Directed Studies in Landscape Planning and Sustainability**

This course is not eligible for Credit/D/Fail grading.

**Directed Studies in Landscape Planning and Sustainability**

This course is not eligible for Credit/D/Fail grading.

**Directed Studies in Landscape Planning and Sustainability**

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**Directed Studies in Landscape Planning and Sustainability**

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<th>Course Code</th>
<th>Course Name</th>
<th>Instructor</th>
<th>Credits</th>
<th>Type</th>
<th>Schedule</th>
<th>Location</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAST_V 308-001</td>
<td>Against the Law</td>
<td>W2</td>
<td>308</td>
<td>201</td>
<td>In Person Learning Thu Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.</td>
</tr>
<tr>
<td>LAST_V 350-001</td>
<td>Topics in Law and Society</td>
<td>W1</td>
<td>350</td>
<td>A A_101</td>
<td>In Person Learning Thu</td>
<td>4:00 p.m. - 7:00 p.m.</td>
<td>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.</td>
</tr>
<tr>
<td>LAST_V 350-002</td>
<td>Topics in Law and Society</td>
<td>W1</td>
<td>350</td>
<td>A A_102</td>
<td>In Person Learning Tue Thu</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>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.</td>
</tr>
<tr>
<td>LAST_V 100-001</td>
<td>Introduction to Latin American Studies</td>
<td>W1</td>
<td>100</td>
<td>101</td>
<td>In Person Learning Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>An overview of the culture and society of Latin America from ancient to contemporary times and from Argentina to Mexico.</td>
</tr>
<tr>
<td>LAST_V 100-002</td>
<td>Introduction to Latin American Studies</td>
<td>W1</td>
<td>100</td>
<td>101</td>
<td>In Person Learning Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>An overview of the culture and society of Latin America from ancient to contemporary times and from Argentina to Mexico.</td>
</tr>
<tr>
<td>LAST_V 201-001</td>
<td>Issues of Development in Modern Latin America</td>
<td>W2</td>
<td>201</td>
<td>201</td>
<td>In Person Learning Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
</tr>
<tr>
<td>LAST_V 301-001</td>
<td>Human and Civil Rights in Latin America</td>
<td>W1</td>
<td>301</td>
<td>101</td>
<td>In Person Learning Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Focuses on human rights movements, state violence and impunity, reforms of criminal justice systems, rights of indigenous peoples, women, and minorities, international protection of human rights, the UN and inter-American systems.</td>
</tr>
<tr>
<td>LAST_V 302-001</td>
<td>Indigenous Latin America</td>
<td>W2</td>
<td>302</td>
<td>201</td>
<td>In Person Learning Tue Thu</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>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.</td>
</tr>
<tr>
<td>LAST_V 315-001</td>
<td>Topics in Latin American Studies</td>
<td>W1</td>
<td>315</td>
<td>A A_101</td>
<td>In Person Learning Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>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.</td>
</tr>
<tr>
<td>LATN_V 101-001</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>101</td>
<td>001</td>
<td>In Person Learning Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Classical Latin, Part I.</td>
</tr>
<tr>
<td>LATN_V 101-002</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>101</td>
<td>002</td>
<td>In Person Learning Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Classical Latin, Part I.</td>
</tr>
<tr>
<td>LATN_V 101-003</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>101</td>
<td>003</td>
<td>In Person Learning Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Classical Latin, Part I.</td>
</tr>
<tr>
<td>LATN_V 101-004</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>101</td>
<td>004</td>
<td>Online Learning Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Classical Latin, Part I.</td>
</tr>
<tr>
<td>LATN_V 101-005</td>
<td>Beginning Latin I</td>
<td>W2</td>
<td>101</td>
<td>005</td>
<td>In Person Learning Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Classical Latin, Part I.</td>
</tr>
<tr>
<td>LATN_V 101-006</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>101</td>
<td>006</td>
<td>In Person Learning Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Classical Latin, Part I.</td>
</tr>
<tr>
<td>LATN_V 101-007</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>101</td>
<td>007</td>
<td>In Person Learning Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Classical Latin, Part I.</td>
</tr>
<tr>
<td>LATN_V 102-001</td>
<td>Beginning Latin II</td>
<td>W2</td>
<td>102</td>
<td>001</td>
<td>In Person Learning Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Classical Latin, Part II. Prerequisite: LATN 101.</td>
</tr>
<tr>
<td>LATN_V 102-002</td>
<td>Beginning Latin II</td>
<td>W2</td>
<td>102</td>
<td>002</td>
<td>In Person Learning Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Classical Latin, Part II. Prerequisite: LATN 101.</td>
</tr>
<tr>
<td>LATN_V 103-003</td>
<td>Beginning Latin III</td>
<td>W2</td>
<td>103</td>
<td>003</td>
<td>Online Learning Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Classical Latin, Part II. Prerequisite: LATN 101.</td>
</tr>
<tr>
<td>LATN_V 103-004</td>
<td>Beginning Latin III</td>
<td>W2</td>
<td>103</td>
<td>004</td>
<td>Online Learning Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Classical Latin, Part II. Prerequisite: LATN 101.</td>
</tr>
<tr>
<td>LATN_V 201-001</td>
<td>Intermediate Latin I</td>
<td>W1</td>
<td>201</td>
<td>001</td>
<td>In Person Learning Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.</td>
</tr>
<tr>
<td>LATN_V 201-002</td>
<td>Intermediate Latin I</td>
<td>W1</td>
<td>201</td>
<td>002</td>
<td>In Person Learning Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.</td>
</tr>
<tr>
<td>LATN_V 201-003</td>
<td>Intermediate Latin I</td>
<td>W1</td>
<td>201</td>
<td>003</td>
<td>In Person Learning Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.</td>
</tr>
<tr>
<td>LATN_V 201-004</td>
<td>Intermediate Latin I</td>
<td>W2</td>
<td>201</td>
<td>004</td>
<td>In Person Learning Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.</td>
</tr>
</tbody>
</table>
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 unadappted passages of Latin literature and discussion of their cultural contexts. Credit will not be granted for only one of: LATN 202 or LATN 201. Prerequisites: LATN 201. Equivalency: LATN 202.  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 3:30 p.m.

LATN_V 250-001  
LATN_V 250  001  Latin Literature of the Classical Period (Verse)  
W1  Readings in Latin Verse. Prerequisite: One of LATN 301, LATN 202, LATN 203.  
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 203.  
In Person Learning  
Mon Wed Fri  
1:00 p.m. - 2:00 p.m.

LATN_V 401-A_001  
LATN_V 401  A  001  Latin Prose  
W1  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 351, LATN 201.  
In Person Learning  
Tue Thu  
12:30 p.m. - 2:00 p.m.

LATN_V 401-A_002  
LATN_V 401  A  002  Latin Prose  
W1  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 351, LATN 201.  
In Person Learning  
Arranged  
Arranged

LATN_V 402-B_001  
LATN_V 402  B  001  Latin Verse  
W2  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 201, LATN 203.  
In Person Learning  
Mon Wed Fri  
9:00 a.m. - 10:00 a.m.

LATN_V 501-A_001  
LATN_V 501  A  001  Latin Prose  
W1  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  002  Latin Prose  
W1  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  001  Latin Verse  
W2  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. 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  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  
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type</th>
<th>Title</th>
<th>Weekly Hours</th>
<th>Day(s)</th>
<th>Room</th>
<th>Notes</th>
</tr>
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<tr>
<td>LAW_V 221-004</td>
<td>LAW_V</td>
<td>Criminal Law and Procedure</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>211</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 221-001</td>
<td>LAW_V</td>
<td>Property Law</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>221</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 221-002</td>
<td>LAW_V</td>
<td>Property Law</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>231</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 221-003</td>
<td>LAW_V</td>
<td>Property Law</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>241</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 221-004</td>
<td>LAW_V</td>
<td>Property Law</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>251</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 241-001</td>
<td>LAW_V</td>
<td>Torts</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>261</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 241-002</td>
<td>LAW_V</td>
<td>Torts</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>271</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 241-003</td>
<td>LAW_V</td>
<td>Torts</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>281</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 241-004</td>
<td>LAW_V</td>
<td>Torts</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>291</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 271-001</td>
<td>LAW_V</td>
<td>Introduction to Public Law and the Charter</td>
<td>W2</td>
<td>Wed Fri</td>
<td>231</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LAW_V 271-002</td>
<td>LAW_V</td>
<td>Introduction to Public Law and the Charter</td>
<td>W2</td>
<td>Wed Fri</td>
<td>241</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LAW_V 271-003</td>
<td>LAW_V</td>
<td>Introduction to Public Law and the Charter</td>
<td>W2</td>
<td>Wed Fri</td>
<td>251</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LAW_V 271-004</td>
<td>LAW_V</td>
<td>Introduction to Public Law and the Charter</td>
<td>W2</td>
<td>Wed Fri</td>
<td>261</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LAW_V 281-001</td>
<td>LAW_V</td>
<td>Legal Research and Writing</td>
<td>W1</td>
<td>Tue</td>
<td>271</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LAW_V 281-002</td>
<td>LAW_V</td>
<td>Legal Research and Writing</td>
<td>W1</td>
<td>Tue</td>
<td>281</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LAW_V 281-003</td>
<td>LAW_V</td>
<td>Legal Research and Writing</td>
<td>W1</td>
<td>Tue</td>
<td>291</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LAW_V 281-004</td>
<td>LAW_V</td>
<td>Legal Research and Writing</td>
<td>W1</td>
<td>Tue</td>
<td>301</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
</tbody>
</table>

**Course Descriptions:**

- **Aboriginal and Treaty Rights:** A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.
- **Criminal Law and Procedure:** A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.
- **Property Law:** 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.
- **Introduction to Public Law and the Charter:** 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.
- **Legal Research and Writing:** A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading.
- **Jurisprudence and Critical Perspectives:** An introduction to the basic principles of legal theory and critical perspectives on law. This course is not eligible for Credit/D/Fail grading.

**Course Notes:**

- The course is not eligible for Credit/D/Fail grading.
Introduction to the basic principles of legal theory and critical perspectives on law. This course is not eligible for Credit/D/Fail grading.

Introduction to principles of public and private international law and research methods for international legal materials.

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.

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.

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.

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.

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.

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.

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.

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.

Introduction to principles of public and private international law and research methods for international legal materials.

Introduction to principles of public and private international law and research methods for international legal materials.

Introduction to principles of public and private international law and research methods for international legal materials.

Introduction to the basic principles of legal theory and critical perspectives on law. This course is not eligible for Credit/D/Fail grading.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Lecture Type</th>
<th>Title</th>
<th>Credits</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 342-001</td>
<td>In Person Learning</td>
<td>Maritime Law</td>
<td>W2</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>LAW 344-001</td>
<td>In Person Learning</td>
<td>Introduction to Asian Legal Systems</td>
<td>W1</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td></td>
<td>In Person Learning</td>
<td>Wed Fri</td>
</tr>
<tr>
<td>LAW 336-001</td>
<td>In Person Learning</td>
<td>Chinese Law: Implications for Canada-China Relations</td>
<td>W2</td>
<td>1:30 p.m. - 4:30 p.m.</td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 338-D_001</td>
<td>In Person Learning</td>
<td>Japanese Law</td>
<td>W1</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td></td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>LAW 343-A_001</td>
<td>In Person Learning</td>
<td>Topics in Comparative Law</td>
<td>W1</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 343-D_001</td>
<td>In Person Learning</td>
<td>Topics in Comparative Law</td>
<td>W2</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>LAW 343-D_002</td>
<td>In Person Learning</td>
<td>Topics in Public Law - Seminar</td>
<td>W2</td>
<td>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.</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>LAW 343-D_003</td>
<td>In Person Learning</td>
<td>Topics in Public Law - Seminar</td>
<td>W2</td>
<td>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.</td>
<td></td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>LAW 343-D_004</td>
<td>In Person Learning</td>
<td>Topics in Public Law - Seminar</td>
<td>W2</td>
<td>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.</td>
<td></td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>LAW 343-D_005</td>
<td>In Person Learning</td>
<td>Topics in Public Law - Seminar</td>
<td>W1</td>
<td>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.</td>
<td></td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>LAW 344-G_001</td>
<td>In Person Learning</td>
<td>Innovation Law, and Regulation</td>
<td>W2</td>
<td>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.</td>
<td></td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>LAW 345-C_001</td>
<td>In Person Learning</td>
<td>Topics in Public Law - Lecture</td>
<td>W2</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed</td>
</tr>
<tr>
<td>LAW 345-C_002</td>
<td>In Person Learning</td>
<td>Topics in Public Law - Lecture</td>
<td>W1</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Wed Fri</td>
</tr>
<tr>
<td>LAW 347-B_001</td>
<td>In Person Learning</td>
<td>Federalism</td>
<td>W1</td>
<td>An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>LAW 347-B_002</td>
<td>In Person Learning</td>
<td>Federalism</td>
<td>W1</td>
<td>An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>LAW 347-B_003</td>
<td>In Person Learning</td>
<td>Federalism</td>
<td>W1</td>
<td>An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>LAW 347-B_004</td>
<td>In Person Learning</td>
<td>Federalism</td>
<td>W2</td>
<td>An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>LAW 347-B_006</td>
<td>In Person Learning</td>
<td>Federalism</td>
<td>W2</td>
<td>An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>LAW 348-D_001</td>
<td>In Person Learning</td>
<td>Comparative Constitutional Law</td>
<td>W2</td>
<td>Comparison of the constitutional history, government structures and powers, and protection of individual rights between the United States and Canada. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>LAW 349-D_001</td>
<td>In Person Learning</td>
<td>Topics in Constitutional Law</td>
<td>W1</td>
<td>Not offered each year, consult Faculty. Credit will only be granted for one of LAW 349 or LAW 543. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>LAW 351-A_001</td>
<td>In Person Learning</td>
<td>Topics in Human Rights</td>
<td>W1</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 351-A_002</td>
<td>In Person Learning</td>
<td>Topics in Human Rights</td>
<td>W2</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>LAW 351-G_001</td>
<td>In Person Learning</td>
<td>Topics in Human Rights</td>
<td>W2</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Instructor</td>
<td>Days</td>
<td>Time</td>
<td>Notes</td>
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<tr>
<td>LAW 352</td>
<td>Aboriginal Peoples and Canadian Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sanction of the course present status of the legal relationships</td>
</tr>
<tr>
<td>LAW 353</td>
<td>Aboriginal and Treaty Rights</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>of Aboriginal people stemming from their Aboriginal status and</td>
</tr>
<tr>
<td>LAW 354</td>
<td>First Nations and Economic Development</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>from treaties. Not offered each year, consult Faculty. This course</td>
</tr>
<tr>
<td>LAW 355</td>
<td>Legal Issues affecting land use and economic activity</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>involving First Nations’ resources. Not offered each year, consult</td>
</tr>
<tr>
<td>LAW 357</td>
<td>Topics in First Nations Law - Lecture</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Faculty. Credit will only be granted for one of LAW 357 or LAW 579.</td>
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<tr>
<td>LAW 358</td>
<td>Topics in First Nations Law - Seminar</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 359</td>
<td>In Person Learning</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAW 360</td>
<td>Children and the Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The civil and criminal law affecting families; custody, guardianship</td>
</tr>
<tr>
<td>LAW 363</td>
<td>Racism and Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Legal issues relating to race and racism, including related issues of</td>
</tr>
<tr>
<td>LAW 367</td>
<td>Reproduction and Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Legal issues relating to human reproduction. Not offered each year,</td>
</tr>
<tr>
<td>LAW 368</td>
<td>Sexuality and Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Legal issues relating to sexual activity, orientation and identification</td>
</tr>
<tr>
<td>LAW 370</td>
<td>Topics in Social Justice</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not offered every year; consult Faculty. This course is not eligible</td>
</tr>
<tr>
<td>LAW 372</td>
<td>Administrative Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 374</td>
<td>Municipal Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The municipality as a legal entity, its creation, operation and powers,</td>
</tr>
<tr>
<td>LAW 377</td>
<td>Immigration Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>by laws and regulations; commercial viability; judicial review; business</td>
</tr>
<tr>
<td>LAW 378</td>
<td>Refugee Law</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>enforcement and land use control. This course is not eligible for</td>
</tr>
<tr>
<td>LAW 379</td>
<td>Externship</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 380</td>
<td>Externship</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Students work for an approved organization, supervised by a Faculty-</td>
</tr>
<tr>
<td>LAW 381</td>
<td>Externship</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>approved mentor and a Faculty member. Consult the Faculty for full</td>
</tr>
<tr>
<td>LAW 382</td>
<td>Externship</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>eligibility criteria. This course is not eligible for Credit/D/Fail</td>
</tr>
<tr>
<td>LAW 383</td>
<td>Externship</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>grading.</td>
</tr>
</tbody>
</table>

**LAW 372**: 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 only be granted for one of LAW 372 or LAW 509. This course is not eligible for Credit/D/Fail grading.

**LAW 374**: Municipal Law

**LAW 377**: Administration of immigration into Canada, refugee protection, practice and procedures before immigration tribunals and the courts. Credit will only be granted for one of LAW 377 or LAW 577.

**LAW 378**: Refugee Law

**LAW 379**: Externship

**LAW 380**: Externship

**LAW 381**: Externship

**LAW 382**: Externship
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.

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.

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.

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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
1:30 p.m. - 4:30 p.m.

Credit/D/Fail grading.

Credit/D/Fail grading.

Credit/D/Fail grading.

Credit/D/Fail grading.

Credit/D/Fail grading.

Credit/D/Fail grading.

Credit/D/Fail grading.
<table>
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<tr>
<th>Course Code</th>
<th>Lecture/D</th>
<th>Title</th>
<th>Schedule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 423-C_001</td>
<td>W2</td>
<td>Topics in Intellectual Property - Lecture</td>
<td>Tue Thu</td>
<td>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.</td>
</tr>
<tr>
<td>LAW 423-D_001</td>
<td>W1</td>
<td>Topics in Intellectual Property - Laboratory</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LAW 424-001</td>
<td>W1</td>
<td>Communications Law</td>
<td>In Person Learning</td>
<td>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 570. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 425-D_001</td>
<td>W2</td>
<td>Cyberspace Law</td>
<td>In Person Learning</td>
<td>Legal issues arising from the development of the internet and cyberspace. Credit will only be granted for one of LAW 425 or LAW 571. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 426-A_001</td>
<td>W1</td>
<td>Topics in Law and Technology</td>
<td>Tue Thu</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading. In Person Learning.</td>
</tr>
<tr>
<td>LAW 426-D_001</td>
<td>W1</td>
<td>Topics in Law and Technology</td>
<td>In Person Learning</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 427-A_001</td>
<td>W1</td>
<td>International Justice and Human Rights Clinic Practicum</td>
<td>In Person Learning</td>
<td>The Clinic Practicum is a collaborative effort where volunteers 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.</td>
</tr>
<tr>
<td>LAW 427-C_001</td>
<td>W2</td>
<td>International Justice and Human Rights Clinic Practicum</td>
<td>In Person Learning</td>
<td>The Clinic Practicum is a collaborative effort where volunteers 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.</td>
</tr>
<tr>
<td>LAW 428-A_001</td>
<td>W1</td>
<td>International Justice and Human Rights Clinical Seminar</td>
<td>In Person Learning</td>
<td>The seminar explores foundational texts and treaties on international human rights, international humanitarian law, and international criminal law, as well as undertakes the clinic case and project work in the Fall and Spring Practicum. [3-0] or [3-0]</td>
</tr>
<tr>
<td>LAW 428-001</td>
<td>W1</td>
<td>Rise Womens Legal Centre - Clinic</td>
<td>In Person Learning</td>
<td>The Clinic is a family law legal clinic, where students are temporarily articled 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.</td>
</tr>
<tr>
<td>LAW 428-002</td>
<td>W2</td>
<td>Rise Womens Legal Centre - Clinic</td>
<td>In Person Learning</td>
<td>The Clinic is a family law legal clinic, where students are temporarily articled 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.</td>
</tr>
<tr>
<td>LAW 430-001</td>
<td>W2</td>
<td>Advanced Legal Research</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LAW 430-002</td>
<td>W2</td>
<td>Advanced Legal Research</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LAW 430-003</td>
<td>W1</td>
<td>Advanced Legal Research</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LAW 430-004</td>
<td>W1</td>
<td>Advanced Legal Research</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LAW 431-D_001</td>
<td>W1</td>
<td>Rise Womens Legal Centre - Seminar: Social Justice Issues for Families in the Legal System</td>
<td>In Person Learning</td>
<td>The clinic explores issues of social justice for families in the legal system, necessary to undertake the Rise Women's Legal Centre Clinic in the Fall, Spring and Summer terms. Corequisite: LAW 431.</td>
</tr>
<tr>
<td>LAW 431-D_002</td>
<td>W2</td>
<td>Rise Womens Legal Centre - Seminar: Social Justice Issues for Families in the Legal System</td>
<td>In Person Learning</td>
<td>The clinic explores issues of social justice for families in the legal system, necessary to undertake the Rise Women's Legal Centre Clinic in the Fall, Spring and Summer terms. Corequisite: LAW 431.</td>
</tr>
<tr>
<td>LAW 432-D_001</td>
<td>W2</td>
<td>Topics in Private Law</td>
<td>In Person Learning</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 432-D_002</td>
<td>W2</td>
<td>Topics in Private Law</td>
<td>In Person Learning</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 433-D_003</td>
<td>W2</td>
<td>Topics in Private Law</td>
<td>In Person Learning</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 433-C_001</td>
<td>W2</td>
<td>Topics in Tort Law - Lecture</td>
<td>In Person Learning</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 434-D_001</td>
<td>W2</td>
<td>Medical Negligence Law</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LAW 435-D_001</td>
<td>W2</td>
<td>Topics in Tort Law - Seminar</td>
<td>In Person Learning</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LAW 436-001</td>
<td>W1</td>
<td>Restitution</td>
<td>In Person Learning</td>
<td>Unique enrichment as the basis of civil liability. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Description</td>
<td>Mode</td>
</tr>
<tr>
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</tr>
<tr>
<td>LAW V 457-001</td>
<td>Commercial Transactions</td>
<td>0.01</td>
<td>The law of sale of goods, bills of exchange, promissory notes, and cheques. Credit will only be granted for one of LAW 457 or LAW 527. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 458-001</td>
<td>Secured Transactions</td>
<td>0.01</td>
<td>The law governing the creation, perfection and enforcement of security interests in personal property. Credit will only be granted for one of LAW 458 or LAW 598. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 458-002</td>
<td>Secured Transactions</td>
<td>0.02</td>
<td>The law governing the creation, perfection and enforcement of security interests in personal property. Credit will only be granted for one of LAW 458 or LAW 598. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 459-001</td>
<td>Construction Law</td>
<td>0.01</td>
<td>Legal issues relating to the construction process. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 448-001</td>
<td>Insurance Law</td>
<td>0.01</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 462-001</td>
<td>Condominium Law</td>
<td>0.01</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 447-001</td>
<td>Creditors’ Remedies</td>
<td>0.01</td>
<td>Remedies of an unsecured creditor; fraudulent conveyances and preferences; fraudulent bankruptcy. Credit will only be granted for one of LAW 447 or LAW 599. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 446-001</td>
<td>Corporate Solicitors’ Workshop</td>
<td>0.01</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 467-A-001</td>
<td>Topics in Commercial Law</td>
<td>0.01</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 467 or LAW 538. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 467-C-001</td>
<td>Topics in Commercial Law</td>
<td>0.01</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 467 or LAW 538. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 467-D-001</td>
<td>Topics in Commercial Law</td>
<td>0.02</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 467 or LAW 538. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 468-001</td>
<td>Sports Law</td>
<td>0.01</td>
<td>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 468 or LAW 598. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 461-001</td>
<td>Trusts</td>
<td>0.01</td>
<td>History and nature of trusts; express, implied and constructive trusts, charitable and purposive trusts; administration of trusts, breach of trust. Credit will only be granted for one of LAW 461 or LAW 531. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 452-001</td>
<td>Sarcasm</td>
<td>0.01</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 455-001</td>
<td>Real Estate Transactions</td>
<td>0.01</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 455-002</td>
<td>Real Estate Transactions</td>
<td>0.02</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 456-C-001</td>
<td>Topics in Corporate Law - Lecture</td>
<td>0.01</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 456 or LAW 538. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 459-C-001</td>
<td>Business Organizations</td>
<td>0.01</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 459 or LAW 526. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 459-C-002</td>
<td>Business Organizations</td>
<td>0.02</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 459 or LAW 526. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 459-C-003</td>
<td>Business Organizations</td>
<td>0.03</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 459 or LAW 526. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 459-C-004</td>
<td>Business Organizations</td>
<td>0.04</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 459 or LAW 526. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW V 459-C-005</td>
<td>Business Organizations</td>
<td>0.05</td>
<td>A conceptual overview of business organizations in Canada, including partnerships and corporations, and the rights and duties of shareholders and directors. Credit will only be granted for one of LAW 459 or LAW 526. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Description</td>
<td>Credits</td>
<td>Notes</td>
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<tr>
<td>LAW 460-001</td>
<td>Advanced Corporate Law</td>
<td>Selected topics such as the nature of shares, equity financing, corporate structure and reorganization, and shareholder squabbles. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Tue, 5:00 p.m. - 8:30 p.m.</td>
</tr>
<tr>
<td>LAW 461-001</td>
<td>Corporate Transactions</td>
<td>Legal aspects of selected transactions relating to public corporations and corporate governance. Not offered every year, consult faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Mon-Wed, 4:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>LAW 462-001</td>
<td>Close Corporations</td>
<td>The corporation, taxation, accounting, insurance and estate planning aspects of the close corporation. Not offered every year, consult faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
<td>In Person Learning, Thu, 6:30 p.m. - 9:30 a.m.</td>
</tr>
<tr>
<td>LAW 463-001</td>
<td>Securities Regulation</td>
<td>The law relating to the distribution of securities. Continuous and timely disclosures 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.</td>
<td>W1</td>
<td>In Person Learning, Tue-Thur, 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>LAW 463-002</td>
<td>Securities Regulation</td>
<td>The law relating to the distribution of securities. Continuous and timely disclosures 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.</td>
<td>W2</td>
<td>In Person Learning, Tue-Thur, 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>LAW 464-001</td>
<td>Competition Policy</td>
<td>The law and policy relating to the regulation of competition in Canada and other jurisdictions. Not offered every year, consult faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Wed, 5:00 p.m. - 8:30 p.m.</td>
</tr>
<tr>
<td>LAW 466-001</td>
<td>Business Law Capstone</td>
<td>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.</td>
<td>W2</td>
<td>In Person Learning, Thu, 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>LAW 467-001</td>
<td>Topics in Corporate Law - Seminar</td>
<td>Not offered every year, consult faculty. Credit will only be granted for one of LAW 467 or LAW 584. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Mon, 6:00 p.m. - 9:00 a.m.</td>
</tr>
<tr>
<td>LAW 467-002</td>
<td>Topics in Corporate Law - Seminar</td>
<td>Not offered every year, consult faculty. Credit will only be granted for one of LAW 467 or LAW 584. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>LAW 468-001</td>
<td>Ethics and Professionalism</td>
<td>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 581. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Thu, 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>LAW 468-002</td>
<td>Ethics and Professionalism</td>
<td>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 581. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Mon-Wed, 9:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>LAW 469-003</td>
<td>Ethics and Professionalism</td>
<td>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 469 or LAW 582. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>LAW 469-004</td>
<td>Ethics and Professionalism</td>
<td>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 469 or LAW 582. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>In Person Learning, Fri, 9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW 469-005</td>
<td>Ethics and Professionalism</td>
<td>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 469 or LAW 582. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>In Person Learning, Tue, 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW 469-007</td>
<td>Ethics and Professionalism</td>
<td>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 469 or LAW 582. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Wed, 6:00 p.m. - 9:00 a.m.</td>
</tr>
<tr>
<td>LAW 469-008</td>
<td>Ethics and Professionalism</td>
<td>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 469 or LAW 582. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Wed, 6:00 p.m. - 9:00 a.m.</td>
</tr>
<tr>
<td>LAW 469-001</td>
<td>Civil Procedure</td>
<td>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 580. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>In Person Learning, Tue, 6:00 p.m. - 9:30 a.m.</td>
</tr>
<tr>
<td>LAW 469-002</td>
<td>Civil Procedure</td>
<td>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 580. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Thu, 5:30 p.m. - 8:30 a.m.</td>
</tr>
<tr>
<td>LAW 469-003</td>
<td>Civil Procedure</td>
<td>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 580. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Mon, 8:30 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>LAW 470-001</td>
<td>Insurance Project</td>
<td>Clinical program giving hands-on experience in reviewing claims of innocence post conviction. Not offered every year, consult faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-3</td>
<td>In Person Learning, Wed, 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>LAW 471-001</td>
<td>Preventing Wrongful Convictions</td>
<td>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 every year, consult faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>In Person Learning, Mon, 6:00 p.m. - 9:30 a.m.</td>
</tr>
<tr>
<td>LAW 472-001</td>
<td>Advanced Trial Advocacy</td>
<td>Skills training in all aspects of civil and criminal trial advocacy. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>In Person Learning, Tue-Thur, 5:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LAW 473-001</td>
<td>Appellate Advocacy</td>
<td>Technical aspects of advocacy in civil and criminal cases including interrogation, pre-trial preparation, trial presentation, expert testimony, and cross examination and related ethical considerations. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>In Person Learning, Thu, 2:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>LAW 474-001</td>
<td>Trial Advocacy</td>
<td>Technical aspects of advocacy in civil and criminal cases including interrogation, pre-trial preparation, trial presentation, expert testimony, and cross examination and related ethical considerations. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>In Person Learning, Wed, 4:00 p.m. - 6:00 p.m.</td>
</tr>
</tbody>
</table>
In Person Learning

Foundations of Dispute Resolution
Thu
W1-2
2:00 p.m. - 5:00 p.m.
Clinical Term

Moots and Advocacy
D
In Person Learning

Topics in Litigation, Dispute Resolution and the Administration of Justice
W2
489
C_002
Mon
In Person Learning

Law Review Credit
Arranged
W1-2
2:00 p.m. - 4:00 p.m.

Trial Advocacy
W2
L04
5:30 p.m. - 7:30 p.m.

Evidence
W1-2
L01
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.

Trials
W2
L02
2:00 p.m. - 5:00 p.m.

Trial Advocacy
W1
L01
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.

Trial Advocacy
W1
L01
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.

Trial Advocacy
W1
L01
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.

Trial Advocacy
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L01
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.

Trial Advocacy
W1
L01
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.

Trial Advocacy
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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.

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W1
L01
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.

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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.

Trial Advocacy
W1
L01
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.

Trial Advocacy
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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.

Trial Advocacy
W1
L01
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.

Trial Advocacy
W1
L01
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Type</th>
<th>Credits</th>
<th>Session</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>LAW 501-001</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
<td>490</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>LAW 501-002</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
<td>490</td>
<td>W1</td>
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<tr>
<td>LAW 501-003</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
<td>490</td>
<td>W1-2</td>
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<tr>
<td>LAW 501-004</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
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<td>W1-2</td>
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<td>LAW 501-005</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
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<td>W1-2</td>
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<tr>
<td>LAW 501-006</td>
<td>Clinical Criminal Law</td>
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<td>W1-2</td>
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<tr>
<td>LAW 501-007</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
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<td>W1-2</td>
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<tr>
<td>LAW 501-008</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
<td>490</td>
<td>W1-2</td>
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</tr>
<tr>
<td>LAW 501-009</td>
<td>Clinical Criminal Law</td>
<td>Directed Research</td>
<td>490</td>
<td>W1-2</td>
<td></td>
<td>Arranged</td>
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</tr>
</tbody>
</table>

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.

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.
This course is not eligible for Credit/D/Fail grading.

**LAW 501**

**W2**

2:00 p.m. - 4:00 p.m.

Arranged

504

Online Learning

Directed Research

This course is not eligible for Credit/D/Fail grading.

**LAW 502**

**W2**

5:00 p.m. - 7:00 p.m.

Arranged

504

Online Learning

Directed Research

This course is not eligible for Credit/D/Fail grading.

**LAW 503**

**W1**

1:30 p.m. - 5:30 p.m.

Arranged

501

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 504**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

503

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 505**

**W2**

10:30 a.m. - 12:30 p.m.

Arranged

504

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 506**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

505

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 507**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

506

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 508**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

507

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 509**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

508

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 510**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

509

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 511**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

510

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 512**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

511

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 513**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

512

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 514**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

513

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 515**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

514

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.

**LAW 516**

**W1**

10:30 a.m. - 12:30 p.m.

Arranged

515

Online Learning

Business Organizations

Study of the external control of public actors exercising statutory authority. Introduction to general principles of procedural and substantive judicial review, delegated authority and administrative processes. Credit will be granted for only one of LAW 508 or LAW 372. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Credits</th>
<th>Weekly Hours</th>
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<tbody>
<tr>
<td>LAW 509-003</td>
<td>Administrative Law</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 509-004</td>
<td>Administrative Law</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 509-005</td>
<td>Administrative Law</td>
<td>W2</td>
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<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 509-006</td>
<td>Administrative Law</td>
<td>W1</td>
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<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 509-008</td>
<td>Administrative Law</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 511-D_001</td>
<td>International Criminal Law</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 515-99A</td>
<td>Canadian Private Law: Contractual Obligations and Remedies</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 515-99C</td>
<td>Canadian Private Law: Contractual Obligations and Remedies</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 519-001</td>
<td>Individual Employment Law</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 523-C_001</td>
<td>Topics in Intellectual Property - Lecture</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>LAW 523-C_002</td>
<td>Topics in Intellectual Property - Lecture</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 524-D_001</td>
<td>Methodologies in Law and Policy</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 525-A_001</td>
<td>Canadian Criminal Law and Procedure</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 525-A_004</td>
<td>Canadian Criminal Law and Procedure</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 530-001</td>
<td>Advanced Legal Research and Writing</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 537-001</td>
<td>Commercial Transactions</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 538-001</td>
<td>Secured Transactions</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 538-002</td>
<td>Secured Transactions</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 540-001</td>
<td>Insurance Law</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 543-C_002</td>
<td>Topics in Public Law</td>
<td>W1</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>LAW 545-C_001</td>
<td>Topics in Taxation - Seminar</td>
<td>W2</td>
<td>3</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Time</td>
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<tr>
<td>LAW 546-001</td>
<td>Sports Law</td>
<td>0.01</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>W1</td>
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<td>LAW 546-001</td>
<td>Master's Thesis</td>
<td>0.01</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>W1-2</td>
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<td>LAW 546-002</td>
<td>Master's Thesis</td>
<td>0.02</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>W1</td>
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<td>LAW 546-003</td>
<td>Master's Thesis</td>
<td>0.03</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>W2</td>
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<tr>
<td>LAW 550-001</td>
<td>Taxation of Corporate Reorganizations</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 550-001</td>
<td>Taxation of Corporate Reorganizations</td>
<td>0.02</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 550-001</td>
<td>Taxation of Corporate Reorganizations</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<tr>
<td>LAW 552-001</td>
<td>Taxation of Corporations and Shareholders</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<tr>
<td>LAW 554-001</td>
<td>Taxation of Trusts and Estates</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<td>LAW 554-001</td>
<td>Taxation of Trusts and Estates</td>
<td>0.02</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<td>LAW 554-003</td>
<td>Taxation of Trusts and Estates</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>Taxation of Trusts and Estates</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LAW 556-001</td>
<td>International Taxation</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<td>International Taxation</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<td>International Taxation</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W3</td>
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<td>LAW 556-001</td>
<td>Tax Policy</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 556-001</td>
<td>Tax Policy</td>
<td>0.02</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 556-003</td>
<td>Tax Administration and Dispute Resolution</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 556-003</td>
<td>Tax Administration and Dispute Resolution</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
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<td>Tax Administration and Dispute Resolution</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<td>LAW 556-001</td>
<td>Topics in Taxation - Lecture</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 556-001</td>
<td>Topics in Taxation - Lecture</td>
<td>0.02</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 556-001</td>
<td>Topics in Taxation - Lecture</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<td>LAW 556-001</td>
<td>Topics in International Taxation</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 556-001</td>
<td>Topics in International Taxation</td>
<td>0.02</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 556-001</td>
<td>Topics in International Taxation</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<tr>
<td>LAW 557-001</td>
<td>Communications Law</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 557-001</td>
<td>Communications Law</td>
<td>0.02</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 557-001</td>
<td>Communications Law</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<tr>
<td>LAW 557-001</td>
<td>Cyberlaw</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<tr>
<td>LAW 557-001</td>
<td>Cyberlaw</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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<td>Cyberlaw</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W3</td>
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<tr>
<td>LAW 557-001</td>
<td>Succession</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LAW 557-001</td>
<td>Succession</td>
<td>0.02</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LAW 557-001</td>
<td>Succession</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W3</td>
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<td>LAW 557-001</td>
<td>Securities Regulation</td>
<td>0.01</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 557-001</td>
<td>Securities Regulation</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
<td>W1</td>
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<td>LAW 557-001</td>
<td>Securities Regulation</td>
<td>0.03</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
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Creditors' Remedies
9:30 a.m. - 12:30 p.m.
In Person Learning

Refugee Law
2:00 p.m. - 5:00 p.m.
In Person Learning

Environmental Law
5:00 p.m. - 8:00 p.m.

Ethics and Professionalism
9:00 a.m. - 10:30 a.m.
In Person Learning

Immigration Law
6:00 p.m. - 9:00 p.m.
Online Learning

Civil Procedure
2:00 p.m. - 5:00 p.m.
In Person Learning

Environmental Law
11:00 a.m. - 12:30 p.m.

Ethics and Professionalism
5:00 p.m. - 8:00 p.m.
In Person Learning

Immigration Law
5:30 p.m. - 8:30 p.m.
In Person Learning

Environmental Law
8:30 a.m. - 11:30 a.m.

Conflict of Laws
5:00 p.m. - 8:00 p.m.
In Person Learning

Creditors’ Remedies
5:00 p.m. - 8:00 p.m.
In Person Learning

Doctoral Seminar II: Comparative and Interdisciplinary Perspectives on Legal Theory
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.

Doctoral Dissertation
2:00 p.m. - 5:00 p.m.
In Person Learning

Doctoral Dissertation
Thu

Doctoral Dissertation
In Person Learning

Doctoral Dissertation
W1-2

Doctoral Dissertation
Arranged

Doctoral Seminar II: Comparative and Interdisciplinary Perspectives on Legal Theory
Including law and feminism, Marxism, post-modernist theory, law and the state, legal liberalism and its critics, and other jurisprudential discourses. This course is not eligible for Credit/D/Fail grading.

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 277. Credit will only be granted to one of LAW 310 or LAW 312. This course is not eligible for Credit/D/Fail grading.

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 588 or LAW 688. This course is not eligible for Credit/D/Fail grading.

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 587 or LAW 588. This course is not eligible for Credit/D/Fail grading.

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.

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 588 or LAW 688. This course is not eligible for Credit/D/Fail grading.

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 587 or LAW 588. This course is not eligible for Credit/D/Fail grading.

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 310 or LAW 312. This course is not eligible for Credit/D/Fail grading.

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 588 or LAW 688. This course is not eligible for Credit/D/Fail grading.

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 688. This course is not eligible for Credit/D/Fail grading.

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.

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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 588 or LAW 688. This course is not eligible for Credit/D/Fail grading.

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 688. This course is not eligible for Credit/D/Fail grading.

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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 588 or LAW 688. This course is not eligible for Credit/D/Fail grading.

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 588 or LAW 688. This course is not eligible for Credit/D/Fail grading.
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<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Format</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>Land, Food and Community I: Introduction to Food Systems and Sustainability</td>
<td>3-0-1</td>
<td>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.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>A_001</td>
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<tr>
<td>Land, Food, and Community: Quantitative Data Analysis</td>
<td>3-0-1</td>
<td>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.</td>
<td>Hybrid Learning</td>
<td>Tue</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>B_001</td>
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<tr>
<td>International Field Studies</td>
<td>3-0-1</td>
<td>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.</td>
<td>Hybrid Learning</td>
<td>Fri</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>D06</td>
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</table>

Communication of 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; credit for and citing references to back-up claims; credit for and citing references to back-up claims. Credit will be granted for only one of CRDS 150, FIST 130, or FLS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FIST 130, NRES 130.
Land, Food, and Community II: Principles and Practice of Community Food Security
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 399.
- 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.

Land, Food, and Community III: Leadership in Campus Food System Sustainability
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 398.
- Passing this course does not count towards the Global Learning requirement.
- 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 food systems, and communication. Course comprises the land, food, nutrition and health curriculum. Prerequisite: LFS 350.

Land, Food, and Community IV: Principles and Practice of Community Food Security
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 496.
- 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.

Career Development Practicum
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 400.
- In-person learning. Arranged.

Audio Storytelling
- 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.
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Must attend all Co-op pre-employment workshops.

Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 350.
- In-person learning. Arranged.

Living Language: Science and Society
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 400.
- In-person learning. Arranged.

Land, Food, and Community II: Principles and Practice of Community Food Security
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 399.
- Pre-employment workshops.

Land, Food, and Community III: Leadership in Campus Food System Sustainability
- Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: LFS 398.
- In-person learning. Arranged.

In-person learning. Arranged.

In-person learning. Arranged.

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<td>LFS_V 500-003</td>
<td>Graduate Seminar</td>
<td>W1-2</td>
<td>Hybrid Learning</td>
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<td>LFS_V 549-001</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LFS_V 549-002</td>
<td>Master's Thesis</td>
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<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>LFS_V 549-003</td>
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<td>W1-2</td>
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<td>LIBE_V 461-63A</td>
<td>Administration of the School Library Resource Centre</td>
<td>W1</td>
<td>Online Learning</td>
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<td>LIBE_V 463-63C</td>
<td>Selection of Learning Resources I</td>
<td>W2</td>
<td>Online Learning</td>
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<td>LIBE_V 465-63A</td>
<td>Organization of Learning Resources</td>
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<td>LIBE_V 467-63C</td>
<td>Information Services I</td>
<td>W2</td>
<td>Online Learning</td>
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<td>LIBE_V 477-B_63A</td>
<td>Special Topics in Teacher Librarianship</td>
<td>W1</td>
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<td>LIBR_V 504-001</td>
<td>Management of Information Organizations</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 504-002</td>
<td>Management of Information Organizations</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 504-001</td>
<td>Management of Information Organizations</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 507-002</td>
<td>Methods of Research and Evaluation in Information Organizations</td>
<td>W2</td>
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<td>Thu</td>
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<td>LIBR_V 508-001</td>
<td>Information Practices in Contemporary Society</td>
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<td>LIBR_V 509-001</td>
<td>Management of Information Organizations</td>
<td>W1</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 511-001</td>
<td>Cataloging and Classification</td>
<td>W1</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 511-001</td>
<td>Topics in the Bibliographic Control of Information</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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</table>
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  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 555-001  LIBR_V 555 001  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 556-001  LIBR_V 556 001  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 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-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.
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<th>Course Code</th>
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<tr>
<td>LIBR_V 569-J_002</td>
<td>Current Issues and Trends in Library Services and Information Science</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 569-S_001</td>
<td>Current Issues and Trends in Library Services and Information Science</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 570-002</td>
<td>Marketing in Information Organizations</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>LIBR_V 574-001</td>
<td>Project Management in Information Organizations</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>LIBR_V 574-002</td>
<td>Project Management in Information Organizations</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>LIBR_V 575-002</td>
<td>Academic Libraries</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 576-002</td>
<td>Public Libraries</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>LIBR_V 579-D_002</td>
<td>Topics in the Management of Libraries and Archives</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>LIBR_V 580-001</td>
<td>Collection Management</td>
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<td>LIBR_V 580-002</td>
<td>Collection Management</td>
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<td>LIBR_V 582-001</td>
<td>Digital Image and Text Collections</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>LIBR_V 587-001</td>
<td>Preservation</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>LIBR_V 587-002</td>
<td>Preservation</td>
<td>W2</td>
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<td>LIBR_V 592-001</td>
<td>Directed Research Project</td>
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<td>Directed Research Project</td>
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<td>LIBR_V 594-001</td>
<td>Directed Study</td>
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<td>LIBR_V 595-001</td>
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<td>LIBR_V 596-001</td>
<td>Professional Experience</td>
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<td>Professional Experience</td>
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<td>Professional Experience</td>
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<td>LIBR_V</td>
<td>597</td>
<td>Research Collaboration</td>
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<td>597</td>
<td>Research Collaboration</td>
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<td>LIBR_V</td>
<td>597</td>
<td>Research Collaboration</td>
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<td>LIBR_V 598-002</td>
<td>LIBR_V</td>
<td>598</td>
<td>Program Synthesis Portfolio</td>
<td>W2</td>
<td>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 60 credits. This course is not eligible for Credit/D/Fail grading.</td>
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<td>LING_V 100-001</td>
<td>LING_V</td>
<td>100</td>
<td>Introduction to Language and Linguistics</td>
<td>W1</td>
<td>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.</td>
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<tr>
<td>LING_V 100-002</td>
<td>LING_V</td>
<td>100</td>
<td>Introduction to Language and Linguistics</td>
<td>W2</td>
<td>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.</td>
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<td>LING_V</td>
<td>100</td>
<td>Introduction to Language and Linguistics</td>
<td>W1</td>
<td>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.</td>
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<td>LING_V 100-004</td>
<td>LING_V</td>
<td>100</td>
<td>Introduction to Language and Linguistics</td>
<td>W2</td>
<td>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.</td>
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<td>LING_V 100-005</td>
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<td>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.</td>
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<td>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.</td>
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<td>W1</td>
<td>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.</td>
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**Course Description:**

- Study of language as a universal and uniquely human cognitive system. What languages share and how do languages differ? 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.

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LING V 101-003  LING V 101-003
Languages of the World
W1
In Person Learning
Mon/Wed/Fri
10:00 a.m. - 11:00 a.m.
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 language 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.

LING V 101-004  LING V 101-004
Languages of the World
W2
In Person Learning
Mon/Wed/Fri
12:00 p.m. - 1:00 p.m.
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 language 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.

LING V 140-002  LING V 140-002
Problems in Language Studies
W1
In Person Learning
Mon
2:00 p.m. - 3:30 p.m.
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.

LING V 140-001  LING V 140-001
Problems in Language Studies
W1
In Person Learning
Mon
10:00 a.m. - 11:00 a.m.
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.

LING V 170-002  LING V 170-002
Introduction to How to Learn a Language
W2
In Person Learning
Mon/Wed/Fri
11:00 a.m. - 12:00 p.m.
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.

LING V 200-001  LING V 200-001
Linguistic Theory and Analysis I
W1
In Person Learning
Mon/Wed/Fri
11:00 a.m. - 12:00 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 200-101  LING V 200-101
Linguistic Theory and Analysis I
W1
In Person Learning
Fri
12:00 p.m. - 1:00 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 200-102  LING V 200-102
Linguistic Theory and Analysis I
W1
In Person Learning
Fri
2:00 p.m. - 3:30 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 200-103  LING V 200-103
Linguistic Theory and Analysis I
W1
In Person Learning
Fri
10:00 a.m. - 11:00 a.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 200-104  LING V 200-104
Linguistic Theory and Analysis I
W1
In Person Learning
Fri
2:00 p.m. - 3:30 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 200-105  LING V 200-105
Linguistic Theory and Analysis I
W1
In Person Learning
Fri
10:00 a.m. - 11:00 a.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 200-106  LING V 200-106
Linguistic Theory and Analysis I
W1
In Person Learning
Fri
12:00 p.m. - 1:00 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 201-002  LING V 201-002
Linguistic Theory and Analysis II
W2
In Person Learning
Mon/Wed/Fri
2:00 p.m. - 3:30 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 201-001  LING V 201-001
Linguistic Theory and Analysis II
W2
In Person Learning
Mon/Wed/Fri
10:00 a.m. - 11:00 a.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 201-002  LING V 201-002
Linguistic Theory and Analysis II
W2
In Person Learning
Mon/Wed/Fri
12:00 p.m. - 1:00 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 201-003  LING V 201-003
Linguistic Theory and Analysis II
W2
In Person Learning
Mon/Wed/Fri
10:00 a.m. - 11:00 a.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 201-004  LING V 201-004
Linguistic Theory and Analysis II
W2
In Person Learning
Mon/Wed/Fri
9:00 a.m. - 10:30 a.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 201-005  LING V 201-005
Linguistic Theory and Analysis II
W2
In Person Learning
Mon/Wed/Fri
11:00 a.m. - 12:00 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 201-006  LING V 201-006
Linguistic Theory and Analysis II
W2
In Person Learning
Mon/Wed/Fri
12:00 p.m. - 1:00 p.m.
Introduction to grammatical analysis; morphology, syntax, semantics; synchronic analysis and description with illustrations from various languages. Analytical practice and seminar discussion.

LING V 208-002  LING V 208-002
Clinical Topics in Speech, Language, and Hearing Sciences
W2
In Person Learning
Mon/Wed/Fri
1:00 p.m. - 2:30 p.m.
Introduction to speech and hearing sciences, with emphasis on the clinical perspectives of audiology and speech pathology.

LING V 222-001  LING V 222-001
Language Acquisition
W1
Audition and speech perception, phonological organization, word learning, syntax, and pragmatics.

LING V 222-TT1  LING V 222-TT1
Language Acquisition
W1
Audition and speech perception, phonological organization, word learning, syntax, and pragmatics.
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.

Linguistic survey of the languages of Africa, including typological and historical connections between languages, individual and comparative survey 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.

The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: LING 200.

The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: LING 200.

The articulatory and acoustic properties of speech production and perception, including practice in phonetic transcription, instrumental recording, and the analysis of normal speech. Prerequisite: LING 200.

Studying sentence structures, semantics, and sociolinguistic properties of a representative selection of languages, between languages, and within and between languages, individual and comparative survey of sound systems, word structures, sentence structures, and sociolinguistic properties of a representative selection of languages.

Sentence structures, semantics, and sociolinguistic properties of a representative selection of languages. Between languages, and within and between languages, individual and comparative survey of sound systems, word structures, sentence structures, and sociolinguistic properties of a representative selection of languages.

Sentence structures, semantics, and sociolinguistic properties of a representative selection of languages. Between languages, and within and between languages, individual and comparative survey of sound systems, word structures, sentence structures, and sociolinguistic properties of a representative selection of languages.

Sentence structures, semantics, and sociolinguistic properties of a representative selection of languages. Between languages, and within and between languages, individual and comparative survey of sound systems, word structures, sentence structures, and sociolinguistic properties of a representative selection of languages.
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<td>Introduction to Linguistic Phonetics and Speech Science</td>
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<td>3:00 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
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<td>3</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
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<td>Introduction to Linguistic Phonetics and Speech Science</td>
<td>3</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Fri</td>
<td>In Person Learning</td>
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<td>LING 211-A8</td>
<td>Introduction to Linguistic Phonetics and Speech Science</td>
<td>3</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Wed</td>
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<td>LING 211-A9</td>
<td>Introduction to Linguistic Phonetics and Speech Science</td>
<td>3</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>Fri</td>
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<td>LING 319-001</td>
<td>Historical Linguistics</td>
<td>3</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Tue Thu</td>
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<td>LING 321-001</td>
<td>Introduction to Semantics</td>
<td>3</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>LING 323-001</td>
<td>Research Methods for Linguistics</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
<td>Mon Wed Fri</td>
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<td>LING 324-001</td>
<td>Computational Models of Language</td>
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<td>9:30 a.m. - 11:00 a.m.</td>
<td>Mon Wed Fri</td>
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<td>Pragmatics</td>
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<td>LING 327-001</td>
<td>Advanced Phonology</td>
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<td>LING 329-001</td>
<td>Advanced Syntax</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
<td>Mon Wed Fri</td>
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<td>LING 331-001</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
<td>Mon Wed Fri</td>
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<td>Mon Wed Fri</td>
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<td>Language as a Social Instrument</td>
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</table>

In Person Learning: This course is not eligible for Credit/D/Fail grading.

Directed Reading in Topics related to Linguistics: The credit value for this course will be determined in consultation with the student prior to the registration.

Master's Thesis: This course is not eligible for Credit/D/Fail grading.

Doctoral Dissertation: This course is not eligible for Credit/D/Fail grading.

Field Methods in Linguistics I: Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.

Field Methods in Linguistics II: Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.
<table>
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<td>Knowledge and development of skills necessary to create a transnational style of teaching. This course is not eligible for Credit/D/Fail grading.</td>
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<td>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.</td>
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<td>LLED_V 351-108</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Literacy Practices and Assessment: Elementary</td>
</tr>
<tr>
<td>LLED_V 350-109</td>
<td>W1</td>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Classroom Discourses: Elementary</td>
</tr>
<tr>
<td>LLED_V 351-110</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LLED_V 350-111</td>
<td>W1</td>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Classroom Discourses: Elementary</td>
</tr>
<tr>
<td>LLED_V 351-112</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LLED_V 350-113</td>
<td>W1</td>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Classroom Discourses: Elementary</td>
</tr>
<tr>
<td>LLED_V 351-114</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>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.</td>
</tr>
<tr>
<td>LLED_V 350-115</td>
<td>W1</td>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Classroom Discourses: Elementary</td>
</tr>
<tr>
<td>LLED_V 351-116</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LLED_V 350-117</td>
<td>W1</td>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Classroom Discourses: Elementary</td>
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<tr>
<td>LLED_V 351-118</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>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.</td>
</tr>
<tr>
<td>LLED_V 350-119</td>
<td>W1</td>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Classroom Discourses: Elementary</td>
</tr>
<tr>
<td>LLED_V 351-120</td>
<td>W1</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>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.</td>
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<tr>
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<tr>
<td>LLED_V</td>
<td>351</td>
<td>101</td>
<td>Mon</td>
<td>Literacy Practices and Assessment: Elementary</td>
</tr>
<tr>
<td></td>
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<td>W2</td>
<td></td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Mon (alternate weeks) 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>351</td>
<td>110</td>
<td>Mon</td>
<td>Literacy Practices and Assessment: Elementary</td>
</tr>
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<td>W2</td>
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<td>In Person Learning</td>
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<td>Tue 2:00 p.m. - 6:30 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>351</td>
<td>640</td>
<td>Wed</td>
<td>Literacy Practices and Assessment: Elementary</td>
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<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Tue 10:30 a.m. - 1:00 p.m.</td>
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<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Wed 4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>352</td>
<td>102</td>
<td>Mon Wed</td>
<td>Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.</td>
</tr>
<tr>
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<td>W2</td>
<td></td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Wed 10:30 a.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>352</td>
<td>103</td>
<td>Mon Wed</td>
<td>Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.</td>
</tr>
<tr>
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<td></td>
<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Wed 4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>352</td>
<td>104</td>
<td>Mon Wed</td>
<td>Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.</td>
</tr>
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<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Tue 5:00 p.m. - 7:30 p.m.</td>
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<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Fri 2:00 p.m. - 6:30 p.m.</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Wed 10:30 a.m. - 12:30 p.m.</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Wed 9:30 a.m. - 12:30 p.m.</td>
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<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Tue (alternate weeks) 9:30 a.m. - 12:30 p.m.</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
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<td>Fri 8:00 a.m. - 10:30 a.m.</td>
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<td>Wed 4:30 p.m. - 7:30 p.m.</td>
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<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
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<td>Arranged 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>LLED_V</td>
<td>353</td>
<td>101</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
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<td>W1</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Fri 2:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>LLED_V</td>
<td>353</td>
<td>102</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Fri 1:00 p.m. - 3:00 p.m.</td>
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<td>LLED_V</td>
<td>353</td>
<td>103</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Tue 2:00 p.m. - 6:00 p.m.</td>
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<td>LLED_V</td>
<td>353</td>
<td>104</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
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<td>In Person Learning</td>
<td></td>
<td>Wed 9:30 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>353</td>
<td>105</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
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<td>W2</td>
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<td>In Person Learning</td>
<td></td>
<td>Fri 9:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>353</td>
<td>107</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
</tr>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td></td>
<td>Mon 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>353</td>
<td>108</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
</tr>
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<td>W1</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Mon 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>353</td>
<td>109</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
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<td>W1</td>
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<td>Wed 9:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>LLED_V</td>
<td>353</td>
<td>110</td>
<td>Fri</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
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<td>W1</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>In Person Learning</td>
<td></td>
<td>Mon 2:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>LLED_V</td>
<td>353</td>
<td>650</td>
<td>Online</td>
<td>Teaching and Learning English as an Additional Language: Elementary.</td>
</tr>
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<td></td>
<td>W2</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>Course Code</td>
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<td>Accommodation</td>
<td>Course Title</td>
<td>Schedule</td>
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<tr>
<td>360-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>9:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>360-302</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>2:30 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>360-303</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>360-304</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>360-305</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>360-306</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>2:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>360-307</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>9:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>360-308</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>4:30 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>360-309</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>4:30 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>360-310</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>4:30 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>360-640</td>
<td>W1</td>
<td>Arranged</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>4:30 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>361-640</td>
<td>W2</td>
<td>Arranged</td>
<td>Literacy Practices and Assessment: Secondary</td>
<td>4:30 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>366-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Teaching Literature</td>
<td>9:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>366-302</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Teaching Literature</td>
<td>10:30 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>366-640</td>
<td>W1</td>
<td>Arranged</td>
<td>Teaching Literature</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>367-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Teaching Writing</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>367-302</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Teaching Writing</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>368-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Multilingualism in English Language Arts Classrooms</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>370-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Foundations of Teaching French: Secondary</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>370-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Teaching French Language and Literacy: Secondary</td>
<td>2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>380-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Foundations of Teaching Modern Languages: Secondary</td>
<td>5:00 p.m. - 8:30 p.m.</td>
</tr>
<tr>
<td>380-640</td>
<td>W1</td>
<td>Arranged</td>
<td>Foundations of Teaching Modern Languages: Secondary</td>
<td>4:30 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>386-301</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Secondary Theatre: Introduction to Curriculum &amp; Pedagogy</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>386-640</td>
<td>W1</td>
<td>Arranged</td>
<td>Secondary Theatre: Introduction to Curriculum &amp; Pedagogy</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Section</td>
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<td>Time</td>
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<tr>
<td>LLED_V 388-301</td>
<td>Secondary Theatre: Principles and Design</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning: Mon</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>LLED_V 399-002</td>
<td>Practicum in Teaching English as a Second Language</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning: Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>LLED_V 402-001</td>
<td>Living Language: Science and Society</td>
<td>W1</td>
<td>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. Prerequisites: Fourth-year standing or permission of the instructor. Equivalency: ANSC402, ASTU402, FST402, LIFE402 In Online Learning: Mon, Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 423-301</td>
<td>Teaching French Adolescent Literature: Secondary</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning: Mon</td>
<td>4:30 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>LLED_V 441-63A</td>
<td>Introduction to Teaching Children's Literature</td>
<td>W1</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 441-63B</td>
<td>Introduction to Teaching Children's Literature</td>
<td>W1</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 441-63C</td>
<td>Introduction to Teaching Children's Literature</td>
<td>W2</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 441-W3C</td>
<td>Introduction to Teaching Children's Literature</td>
<td>W2</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 446-63C</td>
<td>Teaching with Illustrated Materials: K-12: From Picture Books to Information Texts</td>
<td>W2</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 452-63A</td>
<td>Disciplinary Literacies: Intermediate Through Secondary</td>
<td>W1</td>
<td>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</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 452-63C</td>
<td>Disciplinary Literacies: Intermediate Through Secondary</td>
<td>W2</td>
<td>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</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 459-661</td>
<td>Adolescent Literacies: Processes and Practices</td>
<td>W3</td>
<td>In Person Learning: Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 459-63C</td>
<td>Trends and Issues in Literacy Instruction</td>
<td>W2</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 462-63A</td>
<td>School Library Resource Centre Programs</td>
<td>W1</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 462-63B</td>
<td>School Library Resource Centre Programs</td>
<td>W1</td>
<td>Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 469-63A</td>
<td>Inquiry-Based Pedagogy in School Library Programs</td>
<td>W1</td>
<td>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. In Online Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 478-A_001</td>
<td>Introduction to Teaching English as a Second Language</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning: Mon</td>
<td>6:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 478-A_002</td>
<td>Introduction to Teaching English as a Second Language</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning: Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 478-B_001</td>
<td>Introduction to Teaching English as a Second Language</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning: Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 478-B_002</td>
<td>Introduction to Teaching English as a Second Language</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning: Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 479-61A</td>
<td>The Education of Immigrant Students</td>
<td>W1</td>
<td>In Person Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 479-61A</td>
<td>The Education of Immigrant Students</td>
<td>W1-2</td>
<td>In Person Learning: Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Type</td>
<td>Credits</td>
<td>Timeslots</td>
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<tr>
<td>LLED_V 480-E_061</td>
<td>Advanced Studies in Language and Literacy Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1</td>
</tr>
<tr>
<td>LLED_V 480-E_062</td>
<td>Advanced Studies in Language and Literacy Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>Wed 4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 480-E_063</td>
<td>Digital Media in English Language Arts Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1</td>
</tr>
<tr>
<td>LLED_V 489-A_001</td>
<td>Applied Linguistics for Teachers</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1</td>
</tr>
<tr>
<td>LLED_V 489-A_GIA</td>
<td>Applied Linguistics for Teachers</td>
<td>Online Learning</td>
<td>6</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 489-B_002</td>
<td>Supervised Study in English Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W2</td>
</tr>
<tr>
<td>LLED_V 489-B_GIA</td>
<td>Supervised Study in English Education</td>
<td>Online Learning</td>
<td>6</td>
<td>Arranged</td>
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<tr>
<td>LLED_V 491-A_001</td>
<td>Supervised Study in Modern Languages Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1</td>
</tr>
<tr>
<td>LLED_V 491-B_002</td>
<td>Supervised Study in Modern Languages Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W2</td>
</tr>
<tr>
<td>LLED_V 491-C_003</td>
<td>Supervised Study in Modern Languages Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1-2</td>
</tr>
<tr>
<td>LLED_V 492-A_001</td>
<td>Supervised Study in Reading</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1</td>
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<tr>
<td>LLED_V 492-B_002</td>
<td>Supervised Study in Reading</td>
<td>In Person Learning</td>
<td>6</td>
<td>W2</td>
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<tr>
<td>LLED_V 492-C_003</td>
<td>Supervised Study in Reading</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1-2</td>
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<td>LLED_V 493-A_001</td>
<td>Supervised Study in Modern Languages Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1</td>
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<tr>
<td>LLED_V 493-B_002</td>
<td>Supervised Study in Modern Languages Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W2</td>
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<tr>
<td>LLED_V 493-C_003</td>
<td>Supervised Study in Modern Languages Education</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1-2</td>
</tr>
<tr>
<td>LLED_V 502-062</td>
<td>Analyzing Discourse in Education: Descriptive and Critical Approaches</td>
<td>In Person Learning</td>
<td>6</td>
<td>Tue 4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 505-061</td>
<td>Environmental Literacy</td>
<td>In Person Learning</td>
<td>6</td>
<td>W1</td>
</tr>
<tr>
<td>LLED_V 505-062</td>
<td>Environmental Literacy</td>
<td>In Person Learning</td>
<td>6</td>
<td>W2</td>
</tr>
<tr>
<td>LLED_V 510-061</td>
<td>Language, Discourse and Identity</td>
<td>In Person Learning</td>
<td>6</td>
<td>W2</td>
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<tr>
<td>LLED_V 510-062</td>
<td>Language, Discourse and Identity</td>
<td>In Person Learning</td>
<td>6</td>
<td>Wed 4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>LLED_V 510-62A</td>
<td>Language, Discourse and Identity</td>
<td>In Person Learning</td>
<td>6</td>
<td>Arranged</td>
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<tr>
<td>LLED_V 513-62A</td>
<td>Indigenous Storytelling in Education</td>
<td>Online Learning</td>
<td>6</td>
<td>Arranged</td>
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<td>Course Title</td>
<td>Course Details</td>
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<tr>
<td>LLED_V 513-628</td>
<td>Indigenous Storytelling in Education</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>LLED_V 520-A_61A</td>
<td>Theory and Research in Teaching of Modern Languages</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 521-662</td>
<td>Critical Intercultural Studies in Language Education</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>LLED_V 526-061</td>
<td>Second Language Assessment: Conceptual and Empirical Approaches</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 526-062</td>
<td>Second Language Assessment: Conceptual and Empirical Approaches</td>
<td>W2</td>
<td>Online Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>LLED_V 536-61A</td>
<td>Second Language Assessment: Conceptual and Empirical Approaches</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 536-61B</td>
<td>Second Language Assessment: Conceptual and Empirical Approaches</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 536-A_61A</td>
<td>Theory and Research in Teaching Written Composition</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 540-061</td>
<td>Introduction to Research in the Teaching of Literature</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>LLED_V 551-61A</td>
<td>Introduction to Literacies Across the Lifespan: Theories and Practices</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 553-662</td>
<td>Theoretical Foundations of ESL/ESL Reading Pedagogy</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>LLED_V 556-A_61A</td>
<td>Theory and Research in Early Literacy</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 556-A_62A</td>
<td>Theory and Research in Early Literacy</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 558-62A</td>
<td>Literacy and Multimodality</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 558-62B</td>
<td>Literacy and Multimodality</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 559-061</td>
<td>Digital Media Literacies</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>LLED_V 559-62A</td>
<td>Digital Media Literacies</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 565-0_62</td>
<td>Special Course in Subject Matter Field</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LLED_V 565-0_62</td>
<td>Special Course in Subject Matter Field</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>LLED_V 565-0_62</td>
<td>Special Course in Subject Matter Field</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>LLED_V 570-062</td>
<td>Theory and Research in English Language Education: Discourse Perspectives</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>LLED_V 572-A_661</td>
<td>Theory and Research in Teaching English as a Second Language</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>LLED_V 572-A_61A</td>
<td>Theory and Research in Teaching English as a Second Language</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>LLED_V 573-A_661</td>
<td>Theory of Second Language Acquisition</td>
<td>W1</td>
<td>Online Learning</td>
<td>Thu</td>
</tr>
</tbody>
</table>
In Person Learning

Problems in Education

516
W1

This course is not eligible for Credit/D/Fail grading.

In Person Learning

Wed

4:30 p.m. - 7:30 p.m.

574

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

574

Culture and Politics in Second Language Education

W1

Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Wed

4:30 p.m. - 7:30 p.m.

LLED

580-A

Problems in Education

W1

Investigation and report of a problem. The credit value for this course will be determined upon registration of the student.

In Person Learning

Arranged

Arranged

LLED

580-B

Problems in Education

W2

Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

LLED

580-C

Problems in Education

W1-2

Investigation and report of a problem. The credit value for this course will be determined upon registration of the student.

In Person Learning

Arranged

Arranged

LLED

580-D

Problems in Education

W1-2

Investigation and report of a problem. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

LLED

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

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

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

590-06A

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

590-06B

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

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

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

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

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

601-062

Theories for Language and Literacy Research

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

609-060

Doctoral Dissertation

W1-2

Demonstration of students' theoretical and applied knowledge as acquired during their Ph.D. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

LLED

609-061

Doctoral Dissertation

W1

Demonstration of students' theoretical and applied knowledge as acquired during their Ph.D. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

LLED

609-062

Doctoral Dissertation

W2

Demonstration of students' theoretical and applied knowledge as acquired during their Ph.D. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

LLED

610-001

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: SOIL 501

In Person Learning

Mon

10:00 a.m. - 12:00 p.m.

LWS

610-001

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: SOIL 501

In Person Learning

Mon

10:00 a.m. - 12:00 p.m.

LWS

610-003

Land and Water Seminar

W1-2

Current and emerging issues relevant within the general context of land and water systems, and the implications of professional credibility and ethics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Mon

3:30 p.m. - 4:30 p.m.

LWS

615-001

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

11:00 a.m. - 2:00 p.m.

LWS

616-001

Urban Watershed Management

W1

Urbanization impacts on water resources with a focus on water resources management, water quality, point and non-point sources of pollution, drinking water and waste water, riparian buffer zones, contaminant effects, and application of beneficial management practices. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL 516

In Person Learning

Tue

12:30 p.m. - 2:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LWS_V 517-001</td>
<td>Land and Water Resource Evaluation</td>
<td>W1</td>
<td></td>
<td></td>
<td>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: SOIL 150.</td>
</tr>
<tr>
<td>LWS_V 525-002</td>
<td>Global Issues in Land and Water Systems</td>
<td>W2</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>LWS_V 530-A_001</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W1-2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LWS_V 530-A_002</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LWS_V 530-A_003</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W1-2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LWS_V 530-B_001</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W1</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LWS_V 530-B_002</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LWS_V 530-B_003</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W1-2</td>
<td></td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LWS_V 530-C_001</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W1</td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LWS_V 530-C_002</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W2</td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LWS_V 530-C_003</td>
<td>Directed Studies in Land and Water Systems</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LWS_V 548-001</td>
<td>Major Project</td>
<td>W1</td>
<td></td>
<td></td>
<td>Professional paper or topic focusing on emerging issues in water and land resources. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>LWS_V 548-002</td>
<td>Major Project</td>
<td>W2</td>
<td></td>
<td></td>
<td>Professional paper or topic focusing on emerging issues in water and land resources. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MANU_V 205-101</td>
<td>Technical Communication</td>
<td>W1</td>
<td></td>
<td></td>
<td>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 201, ENGL 101, ENGL 111, ENGR 142, ENGR 230, MATH 101; WADE 150. Equivalency: APSC 201.</td>
</tr>
<tr>
<td>MANU_V 230-001</td>
<td>Manufacturing Engineering Laboratory</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>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. [3-2-0; 1-2-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGR 142, ENGR 230, MATH 101, MANU 150. Equivalency: APSC 201.</td>
</tr>
<tr>
<td>MANU_V 230-10A</td>
<td>Manufacturing Engineering Laboratory</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>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. [3-2-0; 1-2-0]</td>
</tr>
<tr>
<td>MANU_V 230-10B</td>
<td>Manufacturing Engineering Laboratory</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>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. [3-2-0; 1-2-0]</td>
</tr>
<tr>
<td>MANU_V 261-101</td>
<td>Thermodynamics</td>
<td>W1</td>
<td></td>
<td></td>
<td>Thermodynamic system and properties, thermodynamic processes; work and heat interfaces. Conservation of energy and first law, internal energy and enthalpy, the Second Law and entropy, applications to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 101, MATH 152, APSC 101. Equivalency: MATH 210.</td>
</tr>
<tr>
<td>MANU_V 261-102</td>
<td>Thermodynamics</td>
<td>W1</td>
<td></td>
<td></td>
<td>Thermodynamic system and properties, thermodynamic processes; work and heat interfaces. Conservation of energy and first law, internal energy and enthalpy, the Second Law and entropy, applications to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 101, MATH 152, APSC 101. Equivalency: MATH 210.</td>
</tr>
<tr>
<td>MANU_V 261-T1A</td>
<td>Thermodynamics</td>
<td>W1</td>
<td></td>
<td></td>
<td>Thermodynamic system and properties, thermodynamic processes; work and heat interfaces. Conservation of energy and first law, internal energy and enthalpy, the Second Law and entropy, applications to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MATH 101, MATH 152, APSC 101. Equivalency: MATH 210.</td>
</tr>
<tr>
<td>MANU_V 265-201</td>
<td>Machine Dynamics</td>
<td>W2</td>
<td></td>
<td></td>
<td>Classifications of mechanisms, velocity, acceleration and force analysis, graphical and computer-oriented vector and matrix methods, balancing, flywheel, gears, gear trains, com. This course is not eligible for Credit/D/Fail grading. [3-0-2]</td>
</tr>
<tr>
<td>MANU_V 270-201</td>
<td>Production Systems Management</td>
<td>W2</td>
<td></td>
<td></td>
<td>Impact of operations in increasing productivity and reducing waste. This course is not eligible for Credit/D/Fail grading. [3-0-0]</td>
</tr>
</tbody>
</table>
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. [3-4-0; 1-4-0] Prerequisite: MANU 230.
In Person Learning Thu 9:00 a.m. - 10:00 a.m.

MANU V 330-LA 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. [3-4-0; 1-4-0] Prerequisite: MANU 230.
In Person Learning Tue 12:30 p.m. - 2:30 p.m.

MANU V 330-LB 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. [3-4-0; 1-4-0] Prerequisite: MANU 230.
In Person Learning Thu 11:30 a.m. - 2:30 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, material requirements planning, and quality control. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: MANU 210.
In Person Learning Thu Thu Thu 3:30 p.m. - 5:30 p.m.

MANU V 370-201 MANU V 370 201 Engineering Materials II W2 Materials selection for different design criteria; importances of shape and processing variables; computer software in selection. Credit will be granted for only one of MATH 378 or MANU 378.
This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: APSC 278.
In Person Learning Mon-Wed 2:00 p.m. - 3:00 p.m.

MANU V 370-37A MANU V 370 37A Engineering Materials II W2 Materials selection for different design criteria; importances of shape and processing variables; computer software in selection. Credit will be granted for only one of MATH 378 or MANU 378.
This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: APSC 278.
In Person Learning Fri 9:30 a.m. - 12:30 p.m.

MANU V 380-102 MANU V 380 102 Manufacturing Processes I W1 Correlation between material properties and processing techniques for practical manufacturing processes. Calculations and design. Application of heat/flow transfer, mechanics and thermodynamics to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: MANU 260, MATH 255, MATH 241, MATH 252 and one of MATH 268, MATH 269, MATH 270 and one of MANU 261, MATH 268.
In Person Learning Tue Thu Thu 4:00 p.m. - 6:00 p.m.

MANU V 380-17A MANU V 380 17A Manufacturing Processes I W1 Correlation between material properties and processing techniques for practical manufacturing processes. Calculations and design. Application of heat/flow transfer, mechanics and thermodynamics to manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: MANU 260, MATH 255, MATH 241, MATH 252 and one of MATH 268, MATH 269, MATH 270 and one of MANU 261, MATH 268.
In Person Learning Wed 3:30 p.m. - 5:30 p.m.

MANU V 380-101 MANU V 380 101 Industrial Automation W1 Principle components of manufacturing automation, modelling of sensors, actuators and control systems, robotic programming, programmable logic control (PLC) systems, and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: All of MANU 265, MATH 255. Corequisite: MATH 252.
In Person Learning Mon 6:00 p.m. - 8:00 p.m.

MANU V 380-201 MANU V 380 201 Industrial Automation W1 Principle components of manufacturing automation, modelling of sensors, actuators and control systems, robotic programming, programmable logic control (PLC) systems, and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: All of MANU 265, MATH 255. Corequisite: MATH 252.
In Person Learning Tue 8:00 a.m. - 10:00 a.m.

MANU V 380-201 MANU V 380 201 Industrial Automation W1 Principle components of manufacturing automation, modelling of sensors, actuators and control systems, robotic programming, programmable logic control (PLC) systems, and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: All of MANU 265, MATH 255. Corequisite: MATH 252.
In Person Learning Tue 10:00 a.m. - 12:00 p.m.

MANU V 380-101 MANU V 380 101 Industrial Automation W1 Principle components of manufacturing automation, modelling of sensors, actuators and control systems, robotic programming, programmable logic control (PLC) systems, and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: All of MANU 265, MATH 255. Corequisite: MATH 252.
In Person Learning Wed 3:00 p.m. - 5:00 p.m.

MANU V 380-201 MANU V 380 201 Industrial Automation W1 Principle components of manufacturing automation, modelling of sensors, actuators and control systems, robotic programming, programmable logic control (PLC) systems, and development of PLC ladder diagrams. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: All of MANU 265, MATH 255. Corequisite: MATH 252.
In Person Learning Fri 9:00 a.m. - 10:00 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. [3-4-0; 1-4-0] Prerequisite: MANU 330.
In Person Learning Fri 9:00 a.m. - 10:00 a.m.

MANU V 430-201 MANU V 430 201 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. [3-4-0; 1-4-0] Prerequisite: MANU 330.
In Person Learning Wed 12:00 p.m. - 2:00 p.m.

MINU V 430-301 MANU V 430 301 Biomedical Manufacturing W1-2 Design tools and methods for additive manufacturing, complex digital geometry creation, computer aided design tools, additive manufacturing workflow development, productivity analysis, analysis of 3D data sets for suitability to additive manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Third-year standing or greater.
In Person Learning Wed 6:30 p.m. - 8:30 p.m.

MANU V 430-301 MANU V 430 301 Biomedical Manufacturing W1 Biomedical and tissue manufacturing processes for biomedical devices, materials and biointerfaces; characterization of biodegradable materials; design tools and methods for additive manufacturing, complex digital geometry creation, computer aided design tools, additive manufacturing workflow development, productivity analysis, analysis of 3D data sets for suitability to additive manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Third-year standing or greater.
In Person Learning Wed 6:30 p.m. - 8:30 p.m.

MANU V 430-101 MANU V 430 101 Biomedical Manufacturing W1-2 Biomedical and tissue manufacturing processes for biomedical devices, materials and biointerfaces; characterization of biodegradable materials; design tools and methods for additive manufacturing, complex digital geometry creation, computer aided design tools, additive manufacturing workflow development, productivity analysis, analysis of 3D data sets for suitability to additive manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Third-year standing or greater.
In Person Learning Wed 6:30 p.m. - 8:30 p.m.

MANU V 430-201 MANU V 430 201 Additive Manufacturing Design W2 Design tools and methods for additive manufacturing, complex digital geometry creation, computer aided design tools, additive manufacturing workflow development, productivity analysis, analysis of 3D data sets for suitability to additive manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Third-year standing or greater.
In Person Learning Wed 6:30 p.m. - 8:30 p.m.

MANU V 430-201 MANU V 430 201 Additive Manufacturing Design W2 Design tools and methods for additive manufacturing, complex digital geometry creation, computer aided design tools, additive manufacturing workflow development, productivity analysis, analysis of 3D data sets for suitability to additive manufacturing processes. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Third-year standing or greater.
In Person Learning Wed 6:30 p.m. - 8:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANU 450-201</td>
<td>Manufacturing for Class Energy</td>
<td>45B</td>
<td>201</td>
<td>Basic signal processing techniques, Data Acquisition, Applications in Manufacturing, Use of scientific evaluation of 3D printing process, Use of 3D printing software. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MANU 465-101</td>
<td>AI and Machine Learning Applications</td>
<td>465</td>
<td>101</td>
<td>Artificial intelligence techniques, Machine learning, Deep learning, Python libraries for machine learning, Basic signal processing techniques, Data Acquisition, Applications in Manufacturing, Use of scientific evaluation of 3D printing process, Use of 3D printing software. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MANU 460-101</td>
<td>Manufacturing Processes II</td>
<td>460</td>
<td>101</td>
<td>Numerical modeling of manufacturing processes, Linkage between material processes, 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.</td>
</tr>
<tr>
<td>MANU 485-101</td>
<td>Manufacturing Processes III</td>
<td>485</td>
<td>201</td>
<td>Manufacturing Processes III</td>
</tr>
<tr>
<td>MANU 481-201</td>
<td>Manufacturing Processes III</td>
<td>481</td>
<td>201</td>
<td>Manufacturing Processes III</td>
</tr>
<tr>
<td>MANU 481-101</td>
<td>Metal Cutting and Machine Tool Vibrations</td>
<td>481</td>
<td>101</td>
<td>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.</td>
</tr>
<tr>
<td>MANU 481-201</td>
<td>Metal Cutting and Machine Tool Vibrations</td>
<td>481</td>
<td>201</td>
<td>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.</td>
</tr>
<tr>
<td>MANU 481-12A</td>
<td>Metal Cutting and Machine Tool Vibrations</td>
<td>481</td>
<td>12A</td>
<td>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.</td>
</tr>
<tr>
<td>MANU 481-12B</td>
<td>Metal Cutting and Machine Tool Vibrations</td>
<td>481</td>
<td>12B</td>
<td>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.</td>
</tr>
<tr>
<td>MANU 481-12C</td>
<td>Metal Cutting and Machine Tool Vibrations</td>
<td>481</td>
<td>12C</td>
<td>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.</td>
</tr>
<tr>
<td>MATH 100-001</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>001</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MATH 100-002</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>002</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MATH 100-003</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>003</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>MATH 100-004</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>004</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MATH 100-005</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>005</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MATH 100-1A1</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>1A1</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MATH 100-1A2</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>1A2</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>MATH 100-1A3</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>1A3</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>MATH 100-1A4</td>
<td>Differential Calculus with Applications</td>
<td>100</td>
<td>1A4</td>
<td>Calculus of elementary functions. Applications and modelling, graphing, optimization. Consult the Faculty of Science Credit Exclusion List. This course is not eligible for Credit/D/Fail grading.</td>
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</tbody>
</table>
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.
Differential Calculus with Applications

10:00 a.m. - 11:00 a.m.
In Person Learning
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

11:00 a.m. - 12:00 p.m.
In Person Learning
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

1:00 p.m. - 2:00 p.m.
In Person Learning
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

2:00 p.m. - 3:00 p.m.
In Person Learning
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

3:00 p.m. - 4:00 p.m.
In Person Learning
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

4:00 p.m. - 5:00 p.m.
In Person Learning
Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

5:00 p.m. - 6:00 p.m.
In Person Learning
Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

6:00 p.m. - 7:00 p.m.
In Person Learning
Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

7:00 p.m. - 8:00 p.m.
In Person Learning
Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [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, 2:00 p.m. - 3:00 p.m., MATH_V 100-B12
- Mon, 100-100, B18
- Wed, 2:00 p.m. - 3:00 p.m., B27
- Fri, 2:00 p.m. - 3:00 p.m., B15
- Fri, 2:00 p.m. - 3:00 p.m., B16
- Fri, 2:00 p.m. - 3:00 p.m., B17
- Mon, 100-100, B21
- Mon, 100-100, B25
- Mon, 100-100, B26
- Mon, 100-100, B27
- Mon, 100-100, B28
- Fri, 100-100, B30
- Fri, 100-100, B33
- Mon, 100-100, B34
- Mon, 100-100, B37
- Mon, 100-100, B38
- Mon, 100-100, B40
- Mon, 100-100, B42
- Mon, 100-100, B43

Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.
Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [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.

Differential Calculus with Applications
MATH_V 100-B87
100
B87

In Person Learning
Tue 10:00 a.m. - 11:00 a.m.

Differential Calculus with Applications
MATH_V 100-B88
100
B88

In Person Learning
Wed 10:00 a.m. - 11:00 a.m.

Differential Calculus with Applications
MATH_V 100-C21
100
C21

In Person Learning
Mon 12:00 p.m. - 1:00 p.m.

Differential Calculus with Applications
MATH_V 100-C22
100
C22

In Person Learning
Mon 12:00 p.m. - 1:00 p.m.

Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

Differential Calculus with Applications
MATH_V 100-C16
100
C16

In Person Learning
Thu 12:00 p.m. - 1:00 p.m.

Differential Calculus with Applications
MATH_V 100-C23
100
C23

In Person Learning
Tue 10:00 a.m. - 11:00 a.m.

Differential Calculus with Applications
MATH_V 100-C24
100
C24

In Person Learning
Tue 10:00 a.m. - 11:00 a.m.

Differential Calculus with Applications
MATH_V 100-C25
100
C25

In Person Learning
Tue 10:00 a.m. - 11:00 a.m.

Differential Calculus with Applications
MATH_V 100-C26
100
C26

In Person Learning
Wed 10:00 a.m. - 11:00 a.m.

Differential Calculus with Applications
MATH_V 100-C27
100
C27

In Person Learning
Wed 10:00 a.m. - 11:00 a.m.

Differential Calculus with Applications
MATH_V 100-C28
100
C28

In Person Learning
Thu 9:00 a.m. - 10:00 a.m.

Derivatives of elementary functions. Applications and modelling: graphing, optimization. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.
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<td>Differential Calculus with Applications</td>
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<td>2:00 p.m. - 4:00 p.m.</td>
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The definite integral, integration techniques, applications, modeling, infinite series. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: A score of 80% or higher in BC Pre-calculus 12. High school calculus is strongly recommended.

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<td>Thu</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>Mon</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>Time</td>
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<td>In Person Learning Mon Tue Wed Thu Fri</td>
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<td>In Person Learning Mon Tue Wed Thu Fri</td>
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<td>C16</td>
<td>In Person Learning Mon Tue Wed Thu Fri</td>
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<td>2:00 p.m. - 3:00 p.m.</td>
<td>C17</td>
<td>In Person Learning Mon Tue Wed Thu Fri</td>
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<td>MATH 101-C18</td>
<td>Integral Calculus with Applications</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>C18</td>
<td>In Person Learning Mon Tue Wed Thu Fri</td>
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<td>MATH 101-C21</td>
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<td>4:00 p.m. - 5:00 p.m.</td>
<td>C21</td>
<td>In Person Learning Mon Tue Wed Thu Fri</td>
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<td>In Person Learning Mon Tue Wed Thu Fri</td>
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In Person Learning

Integral Calculus with Applications

Tue

9:30 a.m. - 11:00 a.m.

In Person Learning
101

The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Wed

1:00 p.m. - 2:00 p.m.

Integral Calculus with Applications

The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Thu

11:00 a.m. - 12:30 p.m.

Integral Calculus with Applications

2:00 p.m. - 3:00 p.m.

The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Fri

C26

Differential Calculus

10:00 a.m. - 11:00 a.m.

Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.

C25

Differential Calculus

1:00 p.m. - 2:00 p.m.

Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.

C24

Differential Calculus

8:00 a.m. - 9:00 a.m.

Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials. [3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.
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<td>Linear Systems</td>
<td>120</td>
<td>227</td>
<td>2:00 p.m.</td>
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<td>228</td>
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<td>229</td>
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<td>233</td>
<td>8:00 a.m.</td>
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<td>243</td>
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<td>Linear Systems</td>
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<td>244</td>
<td>5:00 p.m.</td>
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<td>5:00 p.m.</td>
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</table>
Linear Systems

20 and 30 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [1-1*-0] Corequisite: [MATH101] In Person Learning Thu 10:00 a.m. - 11:00 a.m.

Linear Systems

20 and 30 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [1-1*-0] Corequisite: [MATH101] In Person Learning Thu 4:00 p.m. - 5:00 p.m.

Linear Systems

20 and 30 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [1-1*-0] Corequisite: [MATH101] In Person Learning Thu 6:00 p.m. - 7:00 p.m.

Linear Systems

20 and 30 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [1-1*-0] Corequisite: [MATH101] In Person Learning Thu 6:00 p.m. - 7:00 p.m.

Differential Calculus with Applications

Topics as for Math 100, intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examinations. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.

In Person Learning Tue 9:00 a.m. - 11:00 a.m.

Differential Calculus with Applications

Topics as for Math 100, intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examinations. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.

In Person Learning Fri 12:00 p.m. - 2:00 p.m.

Differential Calculus with Applications

Topics as for Math 100, intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examinations. [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 3:00 p.m. - 5:00 p.m.

Differential Calculus with Applications

Topics as for Math 100, intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examinations. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.

In Person Learning Tue 12:00 p.m. - 2:00 p.m.

Differential Calculus with Applications

Topics as for Math 100, intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examinations. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.

In Person Learning Tue 9:00 a.m. - 11:00 a.m.

Differential Calculus with Applications

Topics as for Math 100, intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit for students with AP Calculus AB, AP Calculus BC, or a passing score on the UBC-SFU-UVIC-UNBC Calculus Challenge Examinations. [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 9:00 a.m. - 11:00 a.m.
Topics as for MATH 100; intended for students with no previous knowledge of Calculus. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100 or MATH 103. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: Principles of Mathematics 12 or Pre-calculus 12.

Options:

- MATH 101-001 160 01 Calculus Survey W1 Functions, derivatives, integrals, curve sketching functions, volume calculations. Only for 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 101. [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 101-002 160 02 Calculus Survey W1 Functions, derivatives, integrals, curve sketching functions, volume calculations. Only for 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 101. [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 9:00 a.m. - 10:00 a.m.

- MATH 101-003 160 03 Calculus Survey W1 Functions, derivatives, integrals, curve sketching functions, volume calculations. Only for 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 101. [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 10:00 a.m. - 11:00 a.m.

- MATH 101-004 160 04 Calculus Survey W1 Functions, derivatives, integrals, curve sketching functions, volume calculations. Only for 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 101. [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 101-011 160 01 Calculus Survey 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100, 102, 104, 120, 180, or 184. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 091. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

- MATH 101-012 160 02 Calculus Survey 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100, 102, 104, 120, 180, or 184. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 091. In Person Learning Tue 2:00 p.m. - 3:30 p.m.

- MATH 101-013 160 03 Calculus Survey 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100, 102, 104, 120, 180, or 184. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 091. In Person Learning Thu 12:30 p.m. - 2:00 p.m.

- MATH 101-014 160 04 Calculus Survey 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100, 102, 104, 120, 180, or 184. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 091. In Person Learning Mon Wed Fri 1:00 p.m. - 2:30 p.m.

- MATH 101-021 160 01 Calculus Survey 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100, 102, 104, 120, 180, or 184. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 091. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

- MATH 101-022 160 02 Calculus Survey 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100, 102, 104, 120, 180, or 184. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 091. In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.

- MATH 101-023 160 03 Calculus Survey 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Not for credit with MATH 100, 102, 104, 120, 180, or 184. Students with credit for MATH 100, 102, 104, 120, 180, or 184 cannot in the same term or later terms obtain credit for MATH 101. [3-0-2] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 091. In Person Learning Wed Fri 2:00 p.m. - 3:30 p.m.
MATH 201-101 MATH 101 200 101 Calculus II 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: https://vancouver.calendar.ubc.ca/ faculties-colleges-and-schools/faculty-science/bachelor-science/undergraduate-course-exclusions. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCI 001. Corequisite: One of MATH 217, MATH 226, MATH 258 and one of MATH 112, MATH 211, MATH 223.
In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

MATH 210-101 MATH 101 210 101 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 graphs. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCI 001. Corequisite: One of MATH 217, MATH 226, MATH 258 and one of MATH 112, MATH 211, MATH 223.
In Person Learning Mon Wed Fri 4:00 p.m. - 5:00 p.m.

MATH 220-201 MATH 101 220 201 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, MATH 121, SCI 001 or (b) one of MATH 121, MATH 226, MATH 258 and one of MATH 112, MATH 211, MATH 223.
In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

MATH 217-101 MATH 101 217 101 Multivariable and Vector Calculus 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: https://vancouver.calendar.ubc.ca/ faculties-colleges-and-schools/faculty-science/bachelor-science/undergraduate-course-exclusions. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCI 001. Corequisite: One of MATH 217, MATH 226, MATH 258 and one of MATH 112, MATH 211, MATH 223.
In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.
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<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Prerequisites</th>
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<td>MATH 221-201</td>
<td>Mathematical Proof</td>
<td>3-0-0</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Tu Th W2 101, Matrix Algebra In Person Learning.</td>
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<td>MATH 221-202</td>
<td>Matrix Algebra</td>
<td>3-0-0</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<td>MATH 221-203</td>
<td>Multivariable Calculus</td>
<td>3-0-0</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed 202, Multivariable Calculus In Person Learning.</td>
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<td>MATH 221-204</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
<td>8:00 a.m. - 9:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri W2 254, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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<td>MATH 221-205</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
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<td>Mon Wed Fri W2 201, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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<td>MATH 221-206</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
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<td>MATH 221-207</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri W2 254, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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<td>MATH 221-208</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed 202, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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<td>MATH 221-209</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri W2 254, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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<td>MATH 221-210</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
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<td>In Person Learning</td>
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<td>MATH 221-211</td>
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<td>In Person Learning</td>
<td>Wed 202, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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<td>MATH 221-213</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
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<td>9:00 p.m. - 10:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri W2 254, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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<tr>
<td>MATH 221-214</td>
<td>Multivariable and Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
<td>10:00 p.m. - 11:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed 202, Multivariable and Vector Calculus for Mechanical Engineering.</td>
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**Course Descriptions**

**Mathematical Proof (MATH 221-201)**
- **Prerequisites:** One of MATH 100, MATH 102, MATH 104, MATH 120, MATH 121, MATH 123, MATH 124, MATH 125, MATH 126, MATH 200, MATH 217, MATH 220, MATH 221, MATH 223, MATH 226, MATH 251, MATH 252, MATH 254.
- **Content:** Sets and functions; induction; cardinality; properties of the real number; 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 100, MATH 102, MATH 104, SCIE 001 or (b) one of MATH 121, MATH 200, MATH 217, MATH 220, MATH 221, MATH 223, MATH 226, MATH 251, MATH 254.
- **In Person Learning:** Tu Th W2 101, Matrix Algebra In Person Learning.

**Matrix Algebra (MATH 221-202)**
- **Prerequisites:** Either a) a score of 64% or higher in one of MATH 101, MATH 103, MATH 105, SCIE 001 or (b) one of MATH 123, MATH 200, MATH 217, MATH 220, MATH 221, MATH 223, MATH 226, MATH 251, MATH 254.
- **Content:** 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists
- **In Person Learning:** Thu 12:30 p.m. - 2:00 p.m.

**Multivariable Calculus (MATH 221-211)**
- **Prerequisites:** One of MATH 120, MATH 121, SCIE 001 or (b) advanced credit for MATH 100.
- **Content:** Emphasis on mechanical engineering applications. (3-0-0) Prerequisite: MATH 101 and one of MATH 120, MATH 121, SCIE 001. Corequisite: All of MECH 222, MECH 225.
- **In Person Learning:** Mon Wed Fri 10:00 a.m. - 11:00 a.m.

**Advanced Calculus I (MATH 226-201)**
- **Prerequisites:** Either (a) a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 120, MATH 121, SCIE 001 or (b) advanced credit for MATH 100.
- **Content:** Review of linear systems; nonlinear equations and applications; phase plane analysis; Laplace transform; numerical methods. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists
- **In Person Learning:** Fri 11:00 a.m. - 12:00 p.m.

**Advanced Calculus II (MATH 227-201)**
- **Prerequisites:** Either (a) a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 120, MATH 121, SCIE 001 or (b) advanced credit for MATH 100.
- **Content:** Partial and directional derivatives; maxima and minima; Lagrange multipliers; multiple integrals. Fundamental theorems, improper integrals. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists
- **In Person Learning:** Fri 11:00 a.m. - 12:00 p.m.

**Linear Algebra (MATH 228-201)**
- **Prerequisites:** Either (a) a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 120, MATH 121, SCIE 001 or (b) advanced credit for MATH 100.
- **Content:** 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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists
- **In Person Learning:** Mon Wed Fri 10:00 a.m. - 11:00 a.m.

**Advanced Calculus I (MATH 226-201)**
- **Prerequisites:** Either (a) a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 120, MATH 121, SCIE 001 or (b) advanced credit for MATH 100.
- **Content:** Review of linear systems; nonlinear equations and applications; phase plane analysis; Laplace transform; numerical methods. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists
- **In Person Learning:** Mon Wed Fri 11:00 a.m. - 12:00 p.m.

**Advanced Calculus II (MATH 227-201)**
- **Prerequisites:** Either (a) a score of 68% or higher in one of MATH 101, MATH 103, MATH 105, MATH 120, MATH 121, SCIE 001 or (b) advanced credit for MATH 100.
- **Content:** Partial and directional derivatives; maxima and minima; Lagrange multipliers; multiple integrals. Fundamental theorems, improper integrals. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists
- **In Person Learning:** Mon Wed Fri 11:00 a.m. - 12:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>MATH 201-101</td>
<td>Ordinary Differential Equations</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 202-101</td>
<td>Differential Equations</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 203-100</td>
<td>Partial Differential Equations</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 204-201</td>
<td>Vector Calculus for Electrical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 205-101</td>
<td>Introduction to Complex Variables</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 206-100</td>
<td>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.</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 207-101</td>
<td>Introduction to Partial Differential Equations</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 208-11A</td>
<td>Differential Equations for Mechanical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 209-201</td>
<td>Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 210-202</td>
<td>Vector Calculus for Electrical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 211-100</td>
<td>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.</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MATH 212-101</td>
<td>Introduction to Complex Variables</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 213-101</td>
<td>Applied Analysis</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 214-110</td>
<td>Applied Analysis</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 215-201</td>
<td>Ordinary Differential Equations</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 216-100</td>
<td>Partial Differential Equations</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 217-101</td>
<td>Vector Calculus for Electrical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH 218-11A</td>
<td>Differential Equations for Mechanical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<td>MATH 219-201</td>
<td>Vector Calculus for Mechanical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<td>MATH 220-202</td>
<td>Vector Calculus for Electrical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<td>MATH 221-203</td>
<td>Vector Calculus for Electrical Engineering</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<td>Course Code</td>
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<tr>
<td>W1 340-101</td>
<td>Calculus IV</td>
<td>Mon Wed Fri 10:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 10:30 a.m. - 11:00 a.m.</td>
<td>Calculus III recommended.</td>
</tr>
<tr>
<td>W2 342-101</td>
<td>Algebra and Coding Theory</td>
<td>Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
<td>Calculus III recommended.</td>
</tr>
<tr>
<td>W3 344-101</td>
<td>Mathematical Game Theory</td>
<td>Mon Wed Fri 3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 3:00 p.m. - 4:00 p.m.</td>
<td>Calculus III recommended.</td>
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<tr>
<td>W4 346-101</td>
<td>Introduction to Mathematical Modelling</td>
<td>Mon Wed Fri 5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 5:00 p.m. - 6:00 p.m.</td>
<td>Calculus III recommended.</td>
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<tr>
<td>W5 350-101</td>
<td>Introduction to Discrete Mathematics</td>
<td>Mon Wed Fri 7:00 p.m. - 8:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 7:00 p.m. - 8:00 p.m.</td>
<td>Calculus III recommended.</td>
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<tr>
<td>W6 352-101</td>
<td>Introduction to Linear Programming</td>
<td>Mon Wed Fri 8:00 p.m. - 9:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 8:00 p.m. - 9:00 p.m.</td>
<td>Calculus III recommended.</td>
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<tr>
<td>W7 354-101</td>
<td>Mathematical Biology</td>
<td>Mon Wed Fri 9:00 p.m. - 10:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 9:00 p.m. - 10:00 p.m.</td>
<td>Calculus III recommended.</td>
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<td>Schedule</td>
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<td>Room(s)</td>
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<td>MATH 308-01</td>
<td>Co-operative Work Placement I</td>
<td>W1</td>
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<tr>
<td>MATH 308-02</td>
<td>Co-operative Work Placement I</td>
<td>W2</td>
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<tr>
<td>MATH 308-03</td>
<td>Co-operative Work Placement II</td>
<td>W1</td>
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<tr>
<td>MATH 309-01</td>
<td>Co-operative Work Placement II</td>
<td>W2</td>
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<tr>
<td>MATH 400-101</td>
<td>Applied Partial Differential Equations</td>
<td>W1</td>
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<tr>
<td>MATH 400-201</td>
<td>Applied Partial Differential Equations</td>
<td>W2</td>
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<tr>
<td>MATH 401-101</td>
<td>Green's Functions and Variational Methods</td>
<td>W2</td>
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<tr>
<td>MATH 404-101</td>
<td>Harmonic Analysis I</td>
<td>W1</td>
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<tr>
<td>MATH 405-101</td>
<td>Numerical Methods for Differential Equations</td>
<td>W1</td>
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<tr>
<td>MATH 406-201</td>
<td>Variational and Approximate Methods in Applied Mathematics</td>
<td>W2</td>
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<tr>
<td>MATH 412-201</td>
<td>Advanced Linear Algebra</td>
<td>W1</td>
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<tr>
<td>MATH 418-101</td>
<td>Probability</td>
<td>W1</td>
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<tr>
<td>MATH 419-201</td>
<td>Stochastic Processes</td>
<td>W1</td>
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<tr>
<td>MATH 420-201</td>
<td>Real Analysis I</td>
<td>W1</td>
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<td>420</td>
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<tr>
<td>MATH 421-201</td>
<td>Real Analysis II</td>
<td>W2</td>
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<tr>
<td>MATH 422-201</td>
<td>Fields and Gabor Theory</td>
<td>W1</td>
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<tr>
<td>MATH 423-201</td>
<td>Commutative Algebra</td>
<td>W1</td>
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<tr>
<td>MATH 424-201</td>
<td>Classical Differential Geometry</td>
<td>W2</td>
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<tr>
<td>MATH 425-201</td>
<td>Introduction to Modern Differential Geometry</td>
<td>W1</td>
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<tr>
<td>MATH 426-201</td>
<td>Introduction to Topology</td>
<td>W1</td>
<td></td>
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<td>426</td>
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</table>

### Applied Partial Differential Equations
- **W1**: Applied Partial Differential Equations (PDE) is a course that covers the fundamental techniques and theories of solving PDEs, which are essential in various fields such as physics, engineering, and finance. The course typically includes topics such as separation of variables, Fourier series, and integral transforms. It prepares students for advanced studies in applied mathematics and engineering.

### Variational and Approximate Methods in Applied Mathematics
- **W2**: Variational and Approximate Methods in Applied Mathematics is a course that focuses on the variational principles and approximation methods used in solving problems in physics, engineering, and other fields. It covers topics such as Green's functions, variational methods, and approximation techniques.

### Probability
- **W1**: Probability is a course that introduces the fundamental concepts of probability theory, including probability spaces, random variables, distributions, expectations, and limit theorems. It is crucial for students in fields such as statistics, economics, and operations research.

### Advanced Linear Algebra
- **W1**: Advanced Linear Algebra is a course that builds on the foundational knowledge of linear algebra, delving into topics such as eigenvalues, eigenvectors, and advanced matrix theory. It is essential for students pursuing advanced studies in mathematics, physics, and engineering.

### Numerical Methods for Differential Equations
- **W1**: Numerical Methods for Differential Equations is a course that focuses on the computational techniques for solving differential equations, which are prevalent in various scientific and engineering disciplines.

### Variational and Approximate Methods in Applied Mathematics
- **W2**: Variational and Approximate Methods in Applied Mathematics is a course that explores variational principles and approximation methods in solving complex problems in applied mathematics. It covers topics such as Green's functions and variational methods.

### Fields and Gabor Theory
- **W1**: Fields and Gabor Theory is a course that introduces the theory of Gabor expansions and their applications, which are important in signal processing and information theory.

### Commutative Algebra
- **W1**: Commutative Algebra is a course that studies commutative rings, ideals, and modules, which are fundamental in algebraic geometry and number theory.

### Classical Differential Geometry
- **W2**: Classical Differential Geometry is a course that explores the geometry of curves and surfaces in Euclidean space, including topics like curvature and differential forms.

### Introduction to Modern Differential Geometry
- **W1**: Introduction to Modern Differential Geometry is a course that introduces modern concepts in differential geometry, such as smooth manifolds and vector bundles, which are central in modern mathematics and theoretical physics.

### Introduction to Topology
- **W1**: Introduction to Topology is a course that introduces the basic concepts of point-set topology, which are foundational in many areas of mathematics, including algebraic topology and functional analysis.
<table>
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<tr>
<th>Course Code</th>
<th>Credits</th>
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<th>Level</th>
<th>Description</th>
<th>Grade Option</th>
<th>Schedule</th>
<th>Location</th>
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<tr>
<td>MATH 427-101</td>
<td>1</td>
<td>Topics in Topology</td>
<td>W</td>
<td>Homology theory, homotopy theory, manifolds, and other topics chosen by the instructor.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Wed Fri 8:30 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH 428-101</td>
<td>1</td>
<td>Mathematical Classical Mechanics</td>
<td>W</td>
<td>Newton's equation, conservation laws, the Euler-Lagrange equation, Hamilton's principle of least action, Hamilton's equations, Lagrangian mechanics on manifolds.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Tue Thu 9:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>MATH 437-101</td>
<td>1</td>
<td>Number Theory</td>
<td>W</td>
<td>The mean-value 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.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MATH 440-101</td>
<td>1</td>
<td>Complex Analysis</td>
<td>W</td>
<td>Formulation of real-world optimization problems using techniques such as linear programming, network flows, integer programming, dynamic programming, solvers by appropriate software.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH 449-101</td>
<td>1</td>
<td>Mathematical Modelling: Discrete Optimization Problems</td>
<td>W</td>
<td>Graph theory, emerging trends, tree-growing algorithms, and proof techniques. Other topics chosen from shortest paths, maximum flows, minimum cost flows, matchings, and graph colouring.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH 450-101</td>
<td>1</td>
<td>Graph Theory</td>
<td>W</td>
<td>Introductory course in mostly non-combinatorial topics including: planarity and Kuratowski's theorem, graph colouring, graph minors, random graphs, cycles in graphs, Ramsey theory, extremal graph theory. Results emphasized. Intended for honours students.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>MATH 461-101</td>
<td>1</td>
<td>Topics in the History of Mathematics</td>
<td>W</td>
<td>Historical development of concepts and techniques in areas chosen from: geometry, number theory, algebra, geometry, probability, analysis. Focus on historically significant writings of important contributors and famous problems of mathematics.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH 464-A_01</td>
<td>1</td>
<td>Directed Studies in Mathematics</td>
<td>W</td>
<td>Introduction to the methods of mathematical research through an exploration of a mathematical topic.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MATH 469-D_01</td>
<td>1</td>
<td>Honour Reading</td>
<td>W</td>
<td>Independent reading by honours students in Mathematics under the direction of a faculty member. Written report required.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>MATH 480-101</td>
<td>1</td>
<td>Asymptotic and Perturbation Methods</td>
<td>W</td>
<td>Asymptotic expansions, asymptotic evaluation of integrals, Wiener-Hopf methods. Regular and singular expansions. Boundary layer theory, matched asymptotic expansions. Multiple scale techniques.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>MATH 481-101</td>
<td>1</td>
<td>Projects in Mathematical Modelling</td>
<td>W</td>
<td>Development and analysis of mathematical models for complex systems in ecology, epidemiology, cell biology, neurophysiology, and other biological and medical disciplines.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH 485-101</td>
<td>1</td>
<td>Co-operative Work Placement III</td>
<td>W</td>
<td>Approval and supervised technical work experience involving mathematics in industry for a minimum of 1/2 month. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MATH 486-610</td>
<td>1</td>
<td>Co-operative Work Placement III</td>
<td>W</td>
<td>Approval and supervised technical work experience involving mathematics in industry for a minimum of 1/2 month. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MATH 487-611</td>
<td>1</td>
<td>Co-operative Work Placement III</td>
<td>W</td>
<td>Approval and supervised technical work experience involving mathematics in industry for a minimum of 1/2 month. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MATH 488-610</td>
<td>1</td>
<td>Co-operative Work Placement IV</td>
<td>W</td>
<td>Approval and supervised technical work experience involving mathematics in industry for a minimum of 1/2 month. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MATH 489-611</td>
<td>1</td>
<td>Co-operative Work Placement IV</td>
<td>W</td>
<td>Approval and supervised technical work experience involving mathematics in industry for a minimum of 1/2 month. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MATH 501-101</td>
<td>1</td>
<td>Algebra I</td>
<td>W</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 9:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH 502-101</td>
<td>1</td>
<td>Algebra II</td>
<td>W</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 9:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH 507-101</td>
<td>1</td>
<td>Measure Theory and Integration</td>
<td>W</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>[3-0-0]</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>W2</td>
<td>Prerequisite(s)</td>
<td>Credit/D/Fail Eligible</td>
<td>Grading Mode</td>
<td>Lecture Time</td>
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<tr>
<td>MATH_V 510-201</td>
<td>MATH_V 510-201 Functional Analysis</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 516-101</td>
<td>MATH_V 516-101 Partial Differential Equations I</td>
<td>W1</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 517-201</td>
<td>MATH_V 517-201 Partial Differential Equations II</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 521-201</td>
<td>MATH_V 521-201 Numerical Analysis of Partial Differential Equations</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 525-101</td>
<td>MATH_V 525-101 Differential Geometry I</td>
<td>W1</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 525-201</td>
<td>MATH_V 525-201 Differential Geometry II</td>
<td>W2</td>
<td></td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 526-201</td>
<td>MATH_V 526-201 Algebraic Topology I</td>
<td>W1</td>
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<tr>
<td>MATH_V 527-201</td>
<td>MATH_V 527-201 Algebraic Topology II</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 530-201</td>
<td>MATH_V 530-201 Analytic Number Theory</td>
<td>W2</td>
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<tr>
<td>MATH_V 541-201</td>
<td>MATH_V 541-201 Harmonic Analysis I</td>
<td>W1</td>
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<td></td>
<td>Arranged</td>
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<tr>
<td>MATH_V 542-201</td>
<td>MATH_V 542-201 Harmonic Analysis II</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 544-201</td>
<td>MATH_V 544-201 Probability I</td>
<td>W1</td>
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<td></td>
<td>Arranged</td>
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<tr>
<td>MATH_V 545-201</td>
<td>MATH_V 545-201 Probability II</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 548-201</td>
<td>MATH_V 548-201 Discrete Random Processes</td>
<td>W2</td>
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<td>Arranged</td>
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<tr>
<td>MATH_V 549-A_001</td>
<td>MATH_V 549-A_001 Thesis for Master's Degree</td>
<td>W1</td>
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<tr>
<td>MATH_V 549-A_002</td>
<td>MATH_V 549-A_002 Thesis for Master's Degree</td>
<td>W2</td>
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<tr>
<td>MATH_V 549-A_003</td>
<td>MATH_V 549-A_003 Thesis for Master's Degree</td>
<td>W2</td>
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<td>Arranged</td>
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</table>

This course is not eligible for Credit/D/Fail grading.
Prerequisite: All of MATH 544, MATH 545.
The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning: Mon Wed Fri
Arranged: Arranged

Mon Wed Fri: 1:00 p.m. - 2:00 p.m.
Wed Fri: 8:30 a.m. - 10:00 a.m.
Tue Thu: 11:00 a.m. - 12:30 p.m.
Mon Wed Fri: 12:00 p.m. - 1:00 p.m.
Tue Thu: 9:30 a.m. - 11:00 a.m.
Mon Wed Fri: 10:00 a.m. - 11:00 a.m.
Arranged: Arranged

Master's Degree: The credit value for this course will be determined in consultation with the student prior to the registration.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
<th>Schedule</th>
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<tbody>
<tr>
<td>MATH_549-B-304</td>
<td>MATH_549-B-304</td>
<td>Thesis for Master's Degree</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_549-B-305</td>
<td>MATH_549-B-305</td>
<td>Thesis for Master's Degree</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_549-B-306</td>
<td>MATH_549-B-306</td>
<td>Thesis for Master's Degree</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_550-101</td>
<td>MATH_550-101</td>
<td>Methods of Asymptotic Analysis</td>
<td>In Person Learning, Mon Wed Fri, 12:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>MATH_551-101</td>
<td>MATH_551-101</td>
<td>Perturbation Methods for Differential Equations</td>
<td>In Person Learning, Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>MATH_552-101</td>
<td>MATH_552-101</td>
<td>Introduction to Dynamical Systems</td>
<td>In Person Learning, Mon Wed Fri, 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MATH_553-101</td>
<td>MATH_553-101</td>
<td>Compressed Sensing</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_560-201</td>
<td>MATH_560-201</td>
<td>Mathematical Biology</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_562-201</td>
<td>MATH_562-201</td>
<td>Mathematical Electrophysiology</td>
<td>In Person Learning, Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>MATH_564-101</td>
<td>MATH_564-101</td>
<td>Evolutionary Dynamics</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_567-201</td>
<td>MATH_567-201</td>
<td>Nonlinear Wave Equations</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_590-001</td>
<td>MATH_590-001</td>
<td>M.Sc. Major Essay</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_590-002</td>
<td>MATH_590-002</td>
<td>M.Sc. Major Essay</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_590-003</td>
<td>MATH_590-003</td>
<td>M.Sc. Major Essay</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_599-201</td>
<td>MATH_599-201</td>
<td>Mathematics Teaching Techniques</td>
<td>In Person Learning, Tue Thu, 12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>MATH_600-D-201</td>
<td>MATH_600-D-201</td>
<td>Topics in Geometry</td>
<td>In Person Learning, Tue Thu, 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>MATH_605-D-101</td>
<td>MATH_605-D-101</td>
<td>Topics in Applied Mathematics</td>
<td>In Person Learning, Mon Wed Fri, 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MATH_605-E-201</td>
<td>MATH_605-E-201</td>
<td>Topics in Applied Mathematics</td>
<td>In Person Learning, Tue Thu, 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>MATH_605-E-301</td>
<td>MATH_605-E-301</td>
<td>Topics in Applied Mathematics</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_605-E-101</td>
<td>MATH_605-E-101</td>
<td>Topics in Applied Mathematics</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
<tr>
<td>MATH_605-D-301</td>
<td>MATH_605-D-301</td>
<td>Topics in Differential Equations</td>
<td>In Person Learning, Tue Thu, 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>MATH_605-D-201</td>
<td>MATH_605-D-201</td>
<td>Topics in Differential Equations</td>
<td>In Person Learning, Tue Thu, 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>MATH_607-D-101</td>
<td>MATH_607-D-101</td>
<td>Topics in Numerical Analysis</td>
<td>In Person Learning, Mon Wed Fri, 10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>MATH_608-B-101</td>
<td>MATH_608-B-101</td>
<td>Topics in Probability</td>
<td>In Person Learning, Arranged, Arranged</td>
</tr>
</tbody>
</table>

This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
### Introduction to Medieval Studies

**Course Code:** MDIA_V 290-201  
**Credits:** 100  
**Days:** Mon Wed Fri  
**Time:** 11:00 a.m. - 12:00 p.m.  
**Location:** Online Learning  
**Description:** Development and practice of media group production processes. Restricted to BMS students with 2nd year standing or above.  
**Remarks:** Not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
</table>

**MECH_V 220-101**
- **L1C**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L2A
  - Description: Technical Skills Practicum

**MECH_V 220-110**
- **L2A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: T1B
  - Description: In Person Learning

**MECH_V 220-120**
- **L4A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-130**
- **L5A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-140**
- **L6A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-150**
- **L7A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-160**
- **L8A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-170**
- **L9A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-180**
- **L10A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-190**
- **L11A**
  - In Person Learning: W1
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L1D
  - Description: Technical Skills Practicum

**MECH_V 220-200**
- **L2A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L2A
  - Description: Engineering Science II

**MECH_V 220-210**
- **L3A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L3A
  - Description: Engineering Science II

**MECH_V 220-220**
- **L4A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L4A
  - Description: Engineering Science II

**MECH_V 220-230**
- **L5A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L5A
  - Description: Engineering Science II

**MECH_V 220-240**
- **L6A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L6A
  - Description: Engineering Science II

**MECH_V 220-250**
- **L7A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L7A
  - Description: Engineering Science II

**MECH_V 220-260**
- **L8A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L8A
  - Description: Engineering Science II

**MECH_V 220-270**
- **L9A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L9A
  - Description: Engineering Science II

**MECH_V 220-280**
- **L10A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L10A
  - Description: Engineering Science II

**MECH_V 220-290**
- **L11A**
  - In Person Learning: W2
  - Time: 11:00 a.m. - 12:00 p.m.
  - Location: L11A
  - Description: Engineering Science II
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, modeling. Turbulent flow in pipes; thermodynamics. Section 5.6 and the 

Mechanical Design Process. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220. Corequisite: MECH 225.

In Person Learning

Fri

3:00 p.m. - 5:00 p.m.


Mechanical Design Process. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220. Corequisite: MECH 225.

In Person Learning

Fri

3:00 p.m. - 5:00 p.m.


Mechanical Design Process. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220. Corequisite: MECH 225.

In Person Learning

Fri

3:00 p.m. - 5:00 p.m.


Mechanical Design Process. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220. Corequisite: MECH 225.

In Person Learning

Fri

3:00 p.m. - 5:00 p.m.


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In Person Learning

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3:00 p.m. - 5:00 p.m.


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In Person Learning

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In Person Learning

Fri

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Mechanical Design Process. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220. Corequisite: MECH 225.

In Person Learning

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3:00 p.m. - 5:00 p.m.


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In Person Learning

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3:00 p.m. - 5:00 p.m.


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In Person Learning

Fri

3:00 p.m. - 5:00 p.m.


Mechanical Design Process. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220. Corequisite: MECH 225.

In Person Learning

Fri

3:00 p.m. - 5:00 p.m.


Mechanical Design Process. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220. Corequisite: MECH 225.

In Person Learning

Fri

3:00 p.m. - 5:00 p.m.
MECH 220-001 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 220-DNU 100 MECH V 226 DNU 100 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 226-20A MECH V 226 20A 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 226-20B MECH V 226 20B 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 226-22A MECH V 226 22A 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 226-22B MECH V 226 22B 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 226-22C MECH V 226 22C 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 226-22D MECH V 226 22D 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.

MECH 220-101 MECH V 220 101 Introduction to Mechanics of Materials W1-2 Statically determinate frames and trusses; normal and shear stress and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain into 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 102, PHYS 170 or (b) all of MATH 101, PHYS 170 and (c) all of MATH 103, PHYS 170; or (d) APSC 172, APSC 173, APSC 174.

MECH 220-201 MECH V 220 201 Introduction to Mechanics of Materials W1-2 Statically determinate frames and trusses; normal and shear stress and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain into 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 102, PHYS 170 or (b) all of MATH 101, PHYS 170 and (c) all of MATH 103, PHYS 170; or (d) APSC 172, APSC 173, APSC 174.

MECH 220-202 MECH V 220 202 Introduction to Mechanics of Materials W1-2 Statically determinate frames and trusses; normal and shear stress and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain into 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 102, PHYS 170 or (b) all of MATH 101, PHYS 170 and (c) all of MATH 103, PHYS 170; or (d) APSC 172, APSC 173, APSC 174.

MECH 220-22A MECH V 220 22A Introduction to Mechanics of Materials W1-2 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. [3-1-0] Prerequisite: All of MATH 120, PHYS 130 and one of MATH 217, MATH 251; and either (a) PHYS 135 and one of MATH 108, PHYS 136, or (b) PHYS 135 and one of MATH 108, MATH 109, PHYS 120, PHYS 136.

MECH 220-22B MECH V 220 22B Introduction to Mechanics of Materials W1-2 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. [3-1-0] Prerequisite: All of MATH 120, PHYS 130 and one of MATH 217, MATH 251; and either (a) PHYS 135 and one of MATH 108, PHYS 136, or (b) PHYS 135 and one of MATH 108, MATH 109, PHYS 120, PHYS 136.

MECH 220-301 MECH V 220 301 Data Analysis and Mechanical Engineering Laboratories W1-2 The use of probability and statistical methods for engineering applications. Mechanics of materials, least transfer, and fluid dynamics. Instrumentation, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.

MECH 220-302 MECH V 220 302 Data Analysis and Mechanical Engineering Laboratories W1-2 The use of probability and statistical methods for engineering applications. Mechanics of materials, least transfer, and fluid dynamics. Instrumentation, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-3-0] Prerequisite: All of MECH 220, MECH 223, MECH 224, MECH 225.

MECH 220-32A MECH V 220 32A Data Analysis and Mechanical Engineering Laboratories 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] Prerequisite: A score of 65% or higher in one of ENGL 112, WRES 150; APC 176. Corequisite: All of MECH 220, MECH 221, MECH 222, MECH 223, MECH 224, MECH 225.
MECH 325-L2D 325 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. Computational tools. Data acquisition, and data manipulation using modern computational tools. 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 Mon (alternate weeks) 2:00 p.m. - 3:00 p.m.

MECH 325-L2D 325 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. Computational tools. Data acquisition, and data manipulation using modern computational tools. 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 Mon (alternate weeks) 2:00 p.m. - 3:00 p.m.

MECH 325-L2D 325 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. Computational tools. Data acquisition, and data manipulation using modern computational tools. 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 Mon (alternate weeks) 2:00 p.m. - 3:00 p.m.

MECH 325-L2D 325 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. Computational tools. Data acquisition, and data manipulation using modern computational tools. 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 Mon (alternate weeks) 2:00 p.m. - 3:00 p.m.

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MECH 325-L2D 325 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. Computational tools. Data acquisition, and data manipulation using modern computational tools. 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 Mon (alternate weeks) 2:00 p.m. - 3:00 p.m.
Modelling of Mechatronic Systems

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 359 or MECH 358 [3-1-1] Prerequisite: All of MECH 224, MECH 225.

In Person Learning
Thu
10:00 a.m. - 12:30 p.m.

Mechanics of Materials

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.

Computational Methods for Mechanical Engineering

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 359 or MECH 358 [3-1-1] Prerequisite: All of MECH 224, MECH 225.

In Person Learning
Wed
10:00 a.m. - 12:00 p.m.

Modelling of Mechatronic Systems

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. [3-0-1] Prerequisite: One of MECH 224, MECH 225.

In Person Learning
Mon
11:00 a.m. - 12:00 p.m.

Mechanics of Materials

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.

Modelling of Mechatronic Systems

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. [3-0-1] Prerequisite: One of MECH 224, MECH 225.

In Person Learning
Mon
11:00 a.m. - 12:00 p.m.

Modelling of Mechatronic Systems

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. [3-0-1] Prerequisite: One of MECH 224, MECH 225.

In Person Learning
Thu
10:00 a.m. - 11:00 a.m.

Computational Methods for Mechanical Engineering

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 359 or MECH 358 [3-1-1] Prerequisite: All of MECH 224, MECH 225.

In Person Learning
Fri
12:00 p.m. - 1:00 p.m.

Computational Methods for Mechanical Engineering

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 359 or MECH 358 [3-1-1] Prerequisite: All of MECH 224, MECH 225.

In Person Learning
Fri
3:00 p.m. - 6:00 p.m.

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. [3-0-1] Prerequisite: All of MECH 223, MECH 224, MECH 225, MECH 229.

In Person Learning
Fri
3:00 p.m. - 6:00 p.m.

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. [3-0-1] Prerequisite: All of MECH 223, MECH 224, MECH 225, MECH 229.

In Person Learning
Fri
3:00 p.m. - 6:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 366</td>
<td>Mechatronics System Instrumentation</td>
<td>3</td>
<td>Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>MECH 410</td>
<td>Professionalism and Ethics in Engineering</td>
<td>3</td>
<td>Mon Wed 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MECH 411</td>
<td>Air Pollution, Technology and Society</td>
<td>3</td>
<td>Mon Wed 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>MECH 420</td>
<td>Mechatronics System Instrumentation</td>
<td>3</td>
<td>Mon Wed 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>MECH 421</td>
<td>Special Topics in Mechanical Engineering</td>
<td>1</td>
<td>Arranged</td>
</tr>
<tr>
<td>MECH 422</td>
<td>Mechatronics System Instrumentation</td>
<td>3</td>
<td>Mon Wed 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>MECH 423</td>
<td>Sensors and Actuators</td>
<td>3</td>
<td>Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>MECH 424</td>
<td>Mechatronics System Instrumentation</td>
<td>3</td>
<td>Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
</tr>
</tbody>
</table>

### Course Descriptions

**MECH 366.** Corequisite: MECH 420. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 360, MECH 463, ELEC 343.

**MECH 410.** Professionalism and Ethics in Engineering. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Second-year standing.

**MECH 411.** Air Pollution, Technology and Society. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading.

**MECH 412.** Sensors and Actuators. [2-2*- 1] Prerequisite: All of MECH 360, MECH 463, ELEC 343.

**MECH 420.** Mechatronics System Instrumentation. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 360, MECH 463, ELEC 343.

**MECH 421.** Special Topics in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 360, MECH 463, ELEC 343.

**MECH 422.** Mechatronics System Instrumentation. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 360, MECH 463, ELEC 343.

**MECH 423.** Sensors and Actuators. [2-2*- 1] Prerequisite: All of MECH 360, MECH 463, ELEC 343.

**MECH 424.** Mechatronics System Instrumentation. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 360, MECH 463, ELEC 343.
In Person Learning
Mon Wed Fri
4:00 p.m. - 5:00 p.m.

In Person Learning
Wed
3:00 p.m. - 4:00 p.m.

In Person Learning
Wed Fri
12:00 p.m. - 1:00 p.m.

In Person Learning
Mon
3:00 p.m. - 4:00 p.m.

In Person Learning
Tue
1:00 p.m. - 2:00 p.m.

In Person Learning
Wed Thu
9:30 a.m. - 10:30 a.m.

In Person Learning
Mon
10:00 a.m. - 11:00 a.m.

In Person Learning
Wed
10:00 a.m. - 11:00 a.m.

In Person Learning
Arranged
Arranged

In Person Learning
Wed Fri
5:00 p.m. - 6:30 p.m.

In Person Learning
Wed
4:00 p.m. - 5:00 p.m.

In Person Learning
Fri
9:00 a.m. - 10:00 a.m.

In Person Learning
Wed Fri
12:00 p.m. - 1:00 p.m.

In Person Learning
Wed Fri
10:00 a.m. - 11:00 a.m.
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 BMG 340, 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: MECH 536

MECH_V 445-T2A

In Person Learning

Wed

10:00 a.m. - 11:00 a.m.

Fuel Cell Systems

W2

In Person Learning

W2

Seminar in Biomechanics research. This course is not eligible for Credit/D/Fail grading. [1-0-0]

MECH_V 453-001

Airship Capstone Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

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6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.

Aero/Space/Mechanical Engineering Design Project

W1-2

Aero/Space/Mechanical Engineering Design Project

W1-2

In Person Learning

Thu

6:00 p.m. - 9:00 p.m.
A capstone course to provide students experience in the design/development of practical energy and environmental devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 451, 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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 and fourth-year standing in the Energy and Environment 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 456-001 MECH_V 456 001 Energy and Environment Capstone Design Project W1-2 A capstone course to provide students experience in the design/development of practical energy and environmental devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 451, 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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 and fourth-year standing in the Energy and Environment 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 457-001 MECH_V 457 001 Flex Capstone Design Project W1-2 A capstone course to provide 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 451, 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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 and fourth-year standing in the Mechanical Engineering 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 457-06A MECH_V 457 T0A Energy and Environment Capstone Design Project W1-2 A capstone course to provide 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 451, 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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 and fourth-year standing in the Mechanical Engineering 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 457-06A MECH_V 457 T0A Flex Capstone Design Project W1-2 A capstone course to provide 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 451, 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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 and fourth-year standing in the Mechanical Engineering 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 458-001 MECH_V 458 001 Mechanoelectrics Capstone Design Project W1-2 A capstone course to provide 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 451, 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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 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 458-06A MECH_V 458 T0A Mechanoelectrics Capstone Design Project W1-2 A capstone course to provide 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 451, 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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 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 458-06A MECH_V 458 T0A Biomedical Biomechanics and Medical Devices Capstone Design Project W1-2 A capstone course to provide students experience in the design/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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 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 458-06A MECH_V 458 T0A Biomedical Biomechanics and Medical Devices Capstone Design Project W1-2 A capstone course to provide students experience in the design/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. (3-2-1-2-2) Prerequisite: All of MECH 121, MECH 228, MECH 324 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 459-001 MECH_V 459 001 Biomedical Biomechanics and Medical Devices Capstone Design Project W1-2
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. [3-3*-0] Prerequisite: Either (a) all of MECH 360, MECH 375 or (b) all of MECH 360, MATH 264. Equivalency: MECH 514

In Person Learning  Min 2.00 p.m. - 6:00 p.m.

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. [3-3*-0] Prerequisite: Either (a) all of MECH 360, MECH 375 or (b) all of MECH 360, MATH 264. Equivalency: MECH 514

In Person Learning  Min 4.00 p.m. - 5:30 p.m.

Theory of vibrations 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

Theory of vibrations 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

Theory of vibrations 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 Fri 10:00 a.m. - 12:00 p.m.

Theory of vibrations 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.

Theory of vibrations 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  Min 11:00 a.m. - 12:00 p.m.

Theory of vibrations 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.

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 462 or MECH 467. Credit will be granted for only one of ELEC 462, ELEC 476, ELEC 588, MECH 462 or MECH 563. 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, MATH 264 and one of ELEC 202, ELEC 203, ELEC 216, ELEC 215, or (c) all of ELEC 204, ELEC 213, ENPH 270, MATH 265.

In Person Learning  Wed 2.00 p.m. - 3:30 p.m.

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 462 or MECH 467. Credit will be granted for only one of ELEC 462, ELEC 476, ELEC 588, MECH 462 or MECH 563. 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, MATH 264 and one of ELEC 202, ELEC 203, ELEC 216, ELEC 215, or (c) all of ELEC 204, ELEC 213, ENPH 270, MATH 265.

In Person Learning  Wed 2.00 p.m. - 3:30 p.m.

Process and system characteristics; transient response; the closed-loop block diagrams and transfer functions; control actions; stability, feedback diagrams; node diagram; root locus methods; frequency responses; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended co-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: Either (a) all of MECH 224, MECH 260 or (b) MATH 264 and one of ELEC 202, ELEC 203, ELEC 216, ELEC 215, or (c) all of ELEC 204, ELEC 213, ENPH 270, MATH 265. 

In Person Learning  Mon 8:00 a.m. - 9:30 a.m.

Process and system characteristics; transient response; the closed-loop block diagrams and transfer functions; control actions; stability, feedback diagrams; node diagram; root locus methods; frequency responses; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended co-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: Either (a) all of MECH 224, MECH 260 or (b) MATH 264 and one of ELEC 202, ELEC 203, ELEC 216, ELEC 215, or (c) all of ELEC 204, ELEC 213, ENPH 270, MATH 265.

In Person Learning  Mon Fri 3.00 p.m. - 4:30 p.m.

Process and system characteristics; transient response; the closed-loop block diagrams and transfer functions; control actions; stability, feedback diagrams; node diagram; root locus methods; frequency responses; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended co-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-0] Prerequisite: Either (a) all of MECH 224, MECH 260 or (b) MATH 264 and one of ELEC 202, ELEC 203, ELEC 216, ELEC 215, or (c) all of ELEC 204, ELEC 213, ENPH 270, MATH 265.

In Person Learning  Mon (Alternate weeks) 5.00 p.m. - 6:30 p.m.

Finite Element Analysis

W1

Mechanical Vibrations

101

In Person Learning

Mon 8:00 a.m. - 9:30 a.m.

Mechanical Vibrations

101

In Person Learning

Mon Wed Fri 2.00 p.m. - 3:00 p.m.

Mechanical Vibrations

101

In Person Learning

Arranged

Mechanical Vibrations

101

In Person Learning

Arranged

Mechanical Vibrations

101

In Person Learning

Wed 11:00 a.m. - 12:00 p.m.

Mechanical Vibrations

101

In Person Learning

Min 11:00 a.m. - 12:00 p.m.

Mechanical Vibrations

101

In Person Learning

Wed 11:00 a.m. - 12:00 p.m.

Industrial Robotics

201

In Person Learning

Wed 12:00 p.m. - 1:00 p.m.

Industrial Robotics

201

In Person Learning

Mon 6:00 p.m. - 7:30 p.m.

Automatic Control

201

In Person Learning

Tue Thu 8:00 a.m. - 9:30 a.m.

Automatic Control

201

In Person Learning

Mon Fri 3.00 p.m. - 4:30 p.m.

Automatic Control

201

In Person Learning

Mon (Alternate weeks) 5.00 p.m. - 6:30 p.m.
MECH 466-12B  MECH  V  466  12B  Automatic Control

W2  In Person Learning  Mon [alternate weeks]  5:00 p.m. - 8:00 p.m.

L1A  In Person Learning

W2  In Person Learning  Wed [alternate weeks]  5:00 p.m. - 8:00 p.m.

MECH 466-12C  MECH  V  466  12C  Automatic Control

W2  In Person Learning  Fri [alternate weeks]  5:00 p.m. - 8:00 p.m.

MECH 466-12G  MECH  V  466  12G  Automatic Control

W2  In Person Learning  Arranged  Arranged

MECH 466-12H  MECH  V  466  12H  Automatic Control

W2  In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

MECH 467-101  MECH  V  467  101  Computer Control of Mechatronics Systems

W1  In Person Learning  Tue Thu  10:30 a.m. - 12:00 p.m.

MECH 467-11A  MECH  V  467  11A  Computer Control of Mechatronics Systems

W1  In Person Learning  Arranged  Arranged

MECH 467-12A  MECH  V  467  12A  Computer Control of Mechatronics Systems

W2  In Person Learning  Mon  12:00 p.m. - 2:00 p.m.

MECH 467-21A  MECH  V  467  21A  Computer Control of Mechatronics Systems

W1  In Person Learning  Mon Wed Fri  2:00 p.m. - 3:30 p.m.

MECH 468-201  MECH  V  468  201  Modern Control Engineering

W2  In Person Learning  Mon Wed Fri  9:30 a.m. - 6:30 a.m.
An Introduction to Pulp and Papermaking

Energy Conversion Systems

Aircraft Design: Aerodynamics

Aircraft Design Structures

Aerospace Propulsion

Air Conditioning, Ventilation and Heating

Air Conditioning, Ventilation and Heating

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MECH 506: Linear Elasticity

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 488 or NAME 581. [3-0-0] Prerequisites: Either [3] MECH 380 or [0-3-0] CIVL 315. Corequisite: All of MECH 488, CIVL 480. Equivalency: NAME581.

In Person Learning: Tue Thu
10:00 a.m. - 12:00 p.m.

MECH 488: Introduction to Ship Hydrodynamics

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 488 or NAME 581. [3-0-0] Prerequisites: Either [3] MECH 380 or [0-3-0] CIVL 315. Corequisite: All of MECH 488, CIVL 480. Equivalency: NAME581.

In Person Learning: Mon Wed
5:00 p.m. - 6:30 p.m.

MECH 489: Interdisciplinary Capstone Design Project

An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this course 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. [0-5-1] Prerequisite: Fourth-year standing and at least 80% average in third-year courses and permission of instructor.

In Person Learning: Thu
4:00 p.m. - 5:30 p.m.

MECH 481: Computer-Aided Manufacturing

Introduction to 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 488 or NAME 581. [3-0-0] Prerequisites: Either [3] MECH 380 or [0-3-0] CIVL 315. Corequisite: All of MECH 488, CIVL 480. Equivalency: NAME581.

In Person Learning: Wed
4:00 p.m. - 6:00 p.m.

MECH 456: Fluid Mechanics

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 488 or NAME 581. [3-0-0] Prerequisites: Either [3] MECH 380 or [0-3-0] CIVL 315. Corequisite: All of MECH 488, CIVL 480. Equivalency: NAME581.

In Person Learning: Thu
4:00 p.m. - 5:30 p.m.

MECH 457: Fluid Mechanics

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 488 or NAME 581. [3-0-0] Prerequisites: Either [3] MECH 380 or [0-3-0] CIVL 315. Corequisite: All of MECH 488, CIVL 480. Equivalency: NAME581.

In Person Learning: Thu
4:00 p.m. - 5:30 p.m.

MECH 458: Fluid Mechanics

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 488 or NAME 581. [3-0-0] Prerequisites: Either [3] MECH 380 or [0-3-0] CIVL 315. Corequisite: All of MECH 488, CIVL 480. Equivalency: NAME581.

In Person Learning: Thu
4:00 p.m. - 5:30 p.m.
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<th>Location</th>
<th>Instructor</th>
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<td>Fundamentals of Microelectromechanical Systems</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
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<tr>
<td>Orthopaedic Biomechanics</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
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<td>Fundamentals of Microelectromechanical Systems</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Tue Thu</td>
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<td>Fundamentals of Microelectromechanical Systems</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
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<tr>
<td>Fundamentals of Microelectromechanical Systems</td>
<td>5:00 p.m. - 8:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
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<tr>
<td>Fundamentals of Microelectromechanical Systems</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>Tue Thu</td>
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<tr>
<td>Fundamentals of Microelectromechanical Systems</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
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<tr>
<td>Fundamentals of Microelectromechanical Systems</td>
<td>1:00 p.m. - 2:30 p.m.</td>
<td>Wed Fri</td>
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<tr>
<td>Software Development for Mechatronic Systems</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Mon Wed Fri</td>
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<tr>
<td>Linear FEA in Solids and Heat Transfer</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Tue Thu</td>
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<td>Linear FEA in Solids and Heat Transfer</td>
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<td>Mon Wed Fri</td>
<td>In Person Learning</td>
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</table>

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.
MECH_578-201 Internal Combustion Engines

W2 Analysis of spark and compression ignition engines. Calculation of fuel economy, power and emission. Practical and theoretical 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 Low Speed Aerodynamics

W1 Circulation, vorticity and Kelvin's Theorem. Potential flow theory and the Kutta Joukowski Law. Vortex Panel Method. Laminar and turbulent boundary layer computations. Lift generated by theory. Vortex Lattice Method. High lift devices. Total airspeed drop. 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 Thu 11:00 a.m. - 12:30 p.m.

MECH_V 581-LA Low Speed Aerodynamics

W1 Circulation, vorticity and Kelvin's Theorem. Potential flow theory and the Kutta Joukowski Law. Vortex Panel Method. Laminar and turbulent boundary layer computations. Lift generated by theory. Vortex Lattice Method. High lift devices. Total airspeed drop. 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 Experimental Fluid Mechanics

W2 Arbulating Test facilities. Wind tunnel force measurement. Theory of conventional and modern manometry. Classical velocimetry. Holowmanometry. Theory and application of laser Doppler velocimetry. Particle image velocimetry. Flow visualization techniques. Thermometry. Credit will only be granted for one of MECH 482 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-LA Experimental Fluid Mechanics

W2 Arbulating Test facilities. Wind tunnel force measurement. Theory of conventional and modern manometry. Classical velocimetry. Holowmanometry. Theory and application of laser Doppler velocimetry. Particle image velocimetry. Flow visualization techniques. Thermometry. Credit will only be granted for one of MECH 482 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 Turbulent Shear Flow

W2 The basic equations of fluid motion; introduction to hydrodynamic 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-streamline shear flows. Credit 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 Computational Fluid Dynamics


In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

MECH_V 587-LA Computational Fluid Dynamics

W1 Analytical, computational, and experimental methods in fluid mechanics. Overview of CFD program development. Finite volume methods, spatial discretization and spatial accuracy analysis. Boundary conditions. Time advance methods, time accuracy, and stability. Application to modeled problems and to the incompressible laminar Navier-Stokes equations. Validation techniques for CFD codes. Credit is only eligible for Credit/D/Fail grading.

In Person Learning Tue 1:00 p.m. - 2:00 p.m.

MECH_V 587_W_201 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 587_W_202 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 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 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 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 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 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 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 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 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 598-106 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 12:00 p.m. - 1:00 p.m.

MECH_V 598-107 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 12:00 p.m. - 1:00 p.m.

MECH_V 598-108 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 Arranged Arranged
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<td>202</td>
<td>B 203</td>
<td>W2</td>
<td>Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Fi</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>Research Seminar</td>
<td>204</td>
<td>B 204</td>
<td>W2</td>
<td>Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Mon</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>MECH 599-B 206</td>
<td>Research Seminar</td>
<td>206</td>
<td>B 206</td>
<td>W2</td>
<td>Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>207</td>
<td>B 207</td>
<td>W2</td>
<td>Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>12:00 p.m. - 1:00 p.m.</td>
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<td>MECH 599-B 208</td>
<td>Research Seminar</td>
<td>208</td>
<td>B 208</td>
<td>W2</td>
<td>Current topics in mechanical engineering research for M.A.Sc. students. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>301</td>
<td>B 301</td>
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<td>B 303</td>
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<td>B 305</td>
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MEDG_V 448-001  
Molecular and Cell Biology of Cancer  
**W1-2**  
Credit/D/Fail grading.

MEDG_V 321-001  
Human Genetics and Medical Genetics  
**W1**  
Credit/D/Fail grading.

MEDG_V 449-001  
Flexible Enhanced Learning II  
**W1-2**  
Credit/D/Fail grading.

MEDG_V 520-001  
Directed Studies  
**W1**  
Credit/D/Fail grading.

MEDG_V 521-001  
Flexible Enhanced Learning III  
**W1-2**  
Credit/D/Fail grading.

MEDG_V 699-208  
Computer programming, foundational biostatistics, and data science methods.  
[3-0] Prerequisite: PATH531

MEDG_V 525-001  
Data analysis in Medical Genetics and Genomics  
In Person Learning  
**W1-2**  
Credit/D/Fail grading.
- **MEDG V 530-001**
  - **MEDG V 530**
  - **001**
  - **Human Genetics**
  - **W2**
  - **Human Mendelian and non-Mendelian inheritance and clinical applications of genetics. Recommended pre-registration. BIOL 335. This course is not eligible for Credit/D/Fail grading.**
  - **Prerequisite:** Acceptance into M.Sc. Genetic Counselling program.
  - **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**

- **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**

- **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**

- **MEDG V 548 A_001**
  - **MEDG V 548**
  - **A_001**
  - **Directed Studies**
  - **W1**
  - **A series of laboratory sessions, directed readings and directed counseling 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**

- **MEDG V 548 A_004**
  - **MEDG V 548**
  - **A_004**
  - **Directed Studies**
  - **W1-2**
  - **A series of laboratory sessions, directed readings and directed counseling 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**

- **MEDG V 548 B_002**
  - **MEDG V 548**
  - **B_002**
  - **Directed Studies**
  - **W1-2**
  - **A series of laboratory sessions, directed readings and directed counseling 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**

- **MEDG V 548 C_003**
  - **MEDG V 548**
  - **C_003**
  - **Directed Studies**
  - **W2**
  - **A series of laboratory sessions, directed readings and directed counseling 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**

- **MEDG V 548 D_001**
  - **MEDG V 548**
  - **D_001**
  - **Directed Studies**
  - **W1**
  - **A series of laboratory sessions, directed readings and directed counseling 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**

- **MEDG V 548 D_002**
  - **MEDG V 548**
  - **D_002**
  - **Directed Studies**
  - **W2**
  - **A series of laboratory sessions, directed readings and directed counseling 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**

- **MEDG V 548 E_001**
  - **MEDG V 548**
  - **E_001**
  - **Directed Studies**
  - **W1-2**
  - **A series of laboratory sessions, directed readings and directed counseling 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**

- **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**

- **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**

- **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**

- **MEDG V 550-001**
  - **MEDG V 550**
  - **001**
  - **Concepts in Clinical Genetics for Genetic Counseling**
  - **W1-3**
  - **Practical applications, theories, and principles of medical genetics as they apply to genetic counseling. This course is not eligible for Credit/D/Fail grading.**
  - **Critical discussion of current primary research literature in medical genetics. This course is not eligible for Credit/D/Fail grading.**
  - **In Person Learning**
  - **Arranged**

- **MEDG V 560-001**
  - **MEDG V 560**
  - **001**
  - **Genetic Counseling Seminar**
  - **W1-2**
  - **Medical and genetic interviewing, 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.**
  - **Critical discussion of current primary research literature in medical genetics. This course is not eligible for Credit/D/Fail grading.**
  - **In Person Learning**
  - **Arranged**

- **MEDG V 565-001**
  - **MEDG V 565**
  - **001**
  - **Advanced Genetic Counseling Seminar**
  - **W1-2**
  - **Clinical experience in prenatal procedures and counseling, prenatal laboratory. Pass/Fail. This course is not eligible for Credit/D/Fail grading.**
  - **In Person Learning**
  - **Arranged**

- **MEDG V 570 A_001**
  - **MEDG V 570**
  - **A_001**
  - **Introductory Clinical and Laboratory Rotation**
  - **W2**
  - **In-depth clinical experience in general and prenatal genetic counseling. Pass/Fail. This course is not eligible for Credit/D/Fail grading.**
  - **In Person Learning**
  - **Arranged**

- **MEDG V 570-000**
  - **MEDG V 570**
  - **000**
  - **Advanced Clinical Rotation**
  - **W1-3**
  - **In-depth clinical experience in general and prenatal genetic counseling. Pass/Fail. This course is not eligible for Credit/D/Fail grading.**
  - **In Person Learning**
  - **Arranged**

- **MEDG V 580-101**
  - **MEDG V 580**
  - **101**
  - **Genomic Testing and Clinical Bioinformatics**
  - **W1**
  - **Human genome wide sequencing (GWAS) 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 Genetic Counseling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading.**
  - **In Person Learning**
  - **Arranged**

- **MEDG V 581-201**
  - **MEDG V 581**
  - **201**
  - **Applied Variant Interpretation**
  - **W2**
  - **Human genome wide sequencing (GWAS) 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 Genetic Counseling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading.**
  - **Online Learning**
  - **Arranged**
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<td>Evidence-Based Genomic Counselling</td>
<td>W2</td>
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<td>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 Counseling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Emerging Genomic Topics</td>
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<td>Utility, impacts, and ethical implications of developing genomic applications; malignancies, tumour genomics, pharmacogenomics, population genomics. Online. Restricted to students in the Graduate Certificate in Genomic Counseling and Variant Interpretation or others with permission of instructor. This course is not eligible for Credit/D/Fail grading.</td>
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<td>MEDI_V 660.003</td>
<td>Directed Studies in Experimental Medicine</td>
<td>W2</td>
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<td>Cell and molecular function in normal tissues and in specific disease processes, including, genetics, viral, bacterial, immune, and physiological disorders. This course is not eligible for Credit/D/Fail grading.</td>
<td>Pass/Fail</td>
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<td>MEDI_V 501.001</td>
<td>Molecular Cellular Biology of Experimental Medicine</td>
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<td>Laboratory experience with experimental models of human disease; critical reviews of their relevance, laboratory techniques, and presentations and written reviews. Registration requires permission of the Department. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>3:30 p.m. - 5:00 p.m.</td>
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<td>MEDI_V 502.001</td>
<td>Experimental Medicine Methodology</td>
<td>W2</td>
<td>0.0</td>
<td>Laboratory experience with experimental models of human disease; critical reviews of their relevance, laboratory techniques, and presentations and written reviews. Registration requires permission of the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>MEDI_V 503.001</td>
<td>Introduction to Clinical Patient Oriented and Translational Research</td>
<td>W1</td>
<td>0.0</td>
<td>Laboratory experience with experimental models of human disease; critical reviews of their relevance, laboratory techniques, and presentations and written reviews. Registration requires permission of the Department. This course is not eligible for Credit/D/Fail grading.</td>
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**MEDI_V 504-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.

**MEDI_V 510.001 Nephrology**

- W2:シンプルなPhysiology of kidney disease; abnormal renal mechanisms in hypertension. This course is not eligible for Credit/D/Fail grading.

**MEDI_V 520.001 Advanced Topics in Visual Sciences**

- W2: 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.

**MEDI_V 530.005 Gastroenterology**

- W1-3: 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.

**MEDI_V 535.001 Research Seminar**

- W1: Research seminar on selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

**MEDI_V 535.002 Research Seminar**

- W1-2: Research seminar on selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

**MEDI_V 540.001 Advances in Immunology**

- W2: Pathogenesis and immunological mechanisms in acute and chronic viral infections of the central nervous system; immunologically induced non-infectious neurological disease. This course is not eligible for Credit/D/Fail grading.

**MEDI_V 540-A.001 Directed Studies in Experimental Medicine**

- W1: This course is not eligible for Credit/D/Fail grading.

**MEDI_V 540-B.002 Directed Studies in Experimental Medicine**

- W1: This course is not eligible for Credit/D/Fail grading.

**MEDI_V 540-B.004 Directed Studies in Experimental Medicine**

- W2: This course is not eligible for Credit/D/Fail grading.

**MEDI_V 540-C.002 Directed Studies in Experimental Medicine**

- W1: This course is not eligible for Credit/D/Fail grading.

**MEDI_V 540-C.004 Directed Studies in Experimental Medicine**

- W2: This course is not eligible for Credit/D/Fail grading.

**MEDI_V 540-D.002 Directed Studies in Experimental Medicine**

- W1: This course is not eligible for Credit/D/Fail grading.
Critical questions and debates in Middle East Studies that shape scholarly and public perception of the region. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.

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, CHIM 121 or (b) one of BIOL 200, BMED 245, SCIE 001.

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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, CHIM 121 or (b) one of BIOL 200, BMED 245, SCIE 001.
Infection. [3-0-1] Prerequisite: Either (a) all of BIOL 112, CHEM 121 or (b) one of BIOL 200, BMEG 245, SCIE 001.

- 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.

- 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.

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Introductory Immunology & Virology

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 BIOE 112, BIOE 216, BIOE 220, BIOE 245, SCEE 001.

In Person Learning  Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Microbial Ecophysiology

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, BMEG 245, SCIE 001, or (b) BIOT 380.

In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

Microbial Ecophysiology

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, BMEG 245, SCIE 001, or (b) BIOT 380.

In Person Learning  Mon Wed Fri 11:00 a.m. - 12:00 p.m.

Microbial Ecophysiology

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, BMEG 245, SCIE 001, or (b) BIOT 380.

In Person Learning  Mon Wed Fri 3:00 p.m. - 4:00 p.m.

Microbial Ecophysiology

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, BMEG 245, SCIE 001, or (b) BIOT 380.

In Person Learning  Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Microbial Ecophysiology

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, BMEG 245, SCIE 001, or (b) BIOT 380.

In Person Learning  Mon Wed Fri 3:00 p.m. - 4:00 p.m.
In Person Learning

Prerequisite: Either (a) one of MICB 212, MICB 202 and one of BIO 201, BIOC 201, BIOC 203, or (b) BIOT 180.

In Person Learning

Fri 11:00 a.m. - 12:00 p.m.

In Person Learning

Fri 9:00 a.m. - 10:00 a.m.

In Person Learning

Mon Wed Fri 9:00 a.m. - 10:00 a.m.

In Person Learning

Thu 12:30 p.m. - 1:30 p.m.

In Person Learning

Thu 10:30 a.m. - 12:00 p.m.

In Person Learning

Thu 10:45 a.m. - 12:00 p.m.

In Person Learning

Thu 11:00 a.m. - 12:00 p.m.

In Person Learning

Thu 12:00 p.m. - 1:00 p.m.

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Thu 12:30 p.m. - 1:30 p.m.

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Fri 12:30 p.m. - 1:30 p.m.

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Fri 12:00 p.m. - 1:00 p.m.

In Person Learning

Fri 2:00 p.m. - 3:00 p.m.

In Person Learning

Thu 10:30 a.m. - 12:00 p.m.

In Person Learning

Thu 12:30 p.m. - 1:30 p.m.

In Person Learning

Thu 12:30 p.m. - 1:30 p.m.
Bioinformatics
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: MICB 211.
In Person Learning Tue 1:00 p.m. - 5:00 p.m.

MICB Y 323-101
MICB Y 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: MICB 211.
In Person Learning Tue 1:00 p.m. - 5:00 p.m.

MICB Y 323-102
MICB Y 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: MICB 211.
In Person Learning Wed 1:00 p.m. - 5:00 p.m.

MICB Y 323-103
MICB Y 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: MICB 211.
In Person Learning Thu 1:00 p.m. - 5:00 p.m.

MICB Y 325-201
MICB Y 325
T01 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, BIOC 301.
In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

MICB Y 325-703
MICB Y 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, BIOC 301.
In Person Learning Fri 2:00 p.m. - 3:00 p.m.

MICB Y 325-704
MICB Y 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, BIOC 301.
In Person Learning Fri 3:00 p.m. - 4:00 p.m.

MICB Y 325-705
MICB Y 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, BIOC 301.
In Person Learning Fri 3:00 p.m. - 4:00 p.m.

MICB Y 353-201
MICB Y 353
T01 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. [1-0-2] Prerequisite: One of BIOC 112, MICB 211, MICB 201, SCIE 101.
In Person Learning Mon 2:00 p.m. - 3:00 p.m.

MICB Y 353-102
MICB Y 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. [1-0-2] Prerequisite: One of BIOC 112, MICB 211, MICB 201, SCIE 101.
In Person Learning Mon 3:00 p.m. - 5:00 p.m.

MICB Y 388-610
MICB Y 388
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 (i) one of MICB 211, MICB 201 and one of MICB 212, MICB 202, or (ii) BIOC 173.
In Person Learning Arranged

MICB Y 388-620
MICB Y 388
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: MICB 388.
In Person Learning Arranged

MICB Y 389-610
MICB Y 389
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 388.
In Person Learning Arranged

MICB Y 389-620
MICB Y 389
620 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 388.
In Person Learning Arranged

MICB Y 402-101
MICB Y 402
L01 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. [1-0-4] Prerequisite: One of MICB 302, BIOC 301. For students who used LANC 301 instead of the prerequisite for MICB 402, students are required to take one of the following as a corequisite: BIOL 234, BIOC 301, MICB 208.
In Person Learning Thu 9:30 a.m. - 11:00 a.m.

MICB Y 402-701
MICB Y 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. [1-0-4] Prerequisite: One of MICB 302, BIOC 301. For students who used LANC 301 instead of the prerequisite for MICB 402, students are required to take one of the following as a corequisite: BIOL 234, BIOC 301, MICB 208.
In Person Learning Tue 2:00 p.m. - 3:00 p.m.

MICB Y 402-702
MICB Y 402
T02 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. [1-0-4] Prerequisite: One of MICB 302, BIOC 301. For students who used LANC 301 instead of the prerequisite for MICB 402, students are required to take one of the following as a corequisite: BIOL 234, BIOC 301, MICB 208.
In Person Learning Thu 2:00 p.m. - 3:00 p.m.

MICB Y 404-201
MICB Y 404
201 Topics in Molecular Bacterial Pathogenesis
W2
Auricular/dissection laboratory research course. Topics such as antibiotic resistance, pathogen genomics; two pathogen interactions; evolution of pathogenesis; 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 Y 404-202
MICB Y 404
202 Topics in Molecular Bacterial Pathogenesis
W2
Auricular/dissection laboratory research course. Topics such as antibiotic resistance, pathogen genomics; two pathogen interactions; evolution of pathogenesis; 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

MICB Y 465-101
MICB Y 465
L01 Bioinformatics
W1
Computational methods to analyze gene and protein sequences to derive structural and functional information. Related topics in functional genomics; [1-0-4] Prerequisite: One of MICB 101, MICB 325, BIOC 303, BIOC 305, BIOC 307. [3-0-0]
In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

MICB Y 465-701
MICB Y 465
T01 Bioinformatics
W1
Computational methods to analyze gene and protein sequences to derive structural and functional information. Related topics in functional genomics; [1-0-4] Prerequisite: One of MICB 101, MICB 325, BIOC 303, BIOC 305, BIOC 307. [3-0-0]
In Person Learning Fri 2:00 p.m. - 3:00 p.m.

MICB Y 465-702
MICB Y 465
T02 Bioinformatics
W1
Computational methods to analyze gene and protein sequences to derive structural and functional information. Related topics in functional genomics; [1-0-4] Prerequisite: One of MICB 101, MICB 325, BIOC 303, BIOC 305, BIOC 307. [3-0-0]
In Person Learning Fri 2:00 p.m. - 3:00 p.m.

MICB Y 466-201
MICB Y 466
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 Mon Wed Fri 11:00 a.m. - 12:00 p.m.

MICB Y 466-202
MICB Y 466
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
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<tr>
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<td>201</td>
<td>Advanced Bacterial Pathogenesis</td>
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<tr>
<td>MICB V 412-201</td>
<td>201</td>
<td>Topics in Immunological Research</td>
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<tr>
<td>MICB V 413-201</td>
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<td>Topics in Immunological Research</td>
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<td>Topics in Microbiome Research</td>
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<td>MICB V 425-201</td>
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<td>Seminar in Microbiological Literature</td>
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<td>MICB V 471-101</td>
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<td>Laboratory Research in Microbiology and Immunology</td>
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**In Person Learning**

- Wed 4:00 p.m. - 5:30 p.m.
- Wed 1:00 p.m. - 2:00 p.m.
- Wed 3:00 p.m. - 4:00 p.m.
- Wed 12:30 p.m. - 1:30 p.m.
- Wed 10:00 a.m. - 11:00 a.m.
- Wed 9:30 a.m. - 11:00 a.m.
- Mon 9:00 a.m. - 10:00 a.m.
- Mon 1:00 p.m. - 2:00 p.m.
- Mon 3:00 p.m. - 4:00 p.m.
- Mon 12:30 p.m. - 1:30 p.m.
- Mon 10:00 a.m. - 11:00 a.m.
- Mon 9:00 a.m. - 10:00 a.m.
- Fri 4:00 p.m. - 5:30 p.m.
- Fri 1:00 p.m. - 2:00 p.m.
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- Wed 9:30 a.m. - 11:00 a.m.
- Wed 11:00 a.m. - 12:30 p.m.
- Wed 10:00 a.m. - 11:00 a.m.
- Wed 9:30 a.m. - 11:00 a.m.
- Wed 11:00 a.m. - 12:30 p.m.
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- Wed 11:00 a.m. - 12:30 p.m.
- Wed 10:00 a.m. - 11:00 a.m.
- Wed 9:30 a.m. - 11:00 a.m.
Co-operative Work Placement IV

In Person Learning

Co-operative Work Placement III

In Person Learning

In Person Learning

In Person Learning

Laboratory Research in Microbiology and Immunology

Microbiological and Immunological Research

Laboratory Research in Microbiology and Immunology

Laboratory Research in Microbiology and Immunology

Laboratory Research in Microbiology and Immunology

Laboratory Research in Microbiology and Immunology

Data Science Research in Microbiology and Immunology

Laboratory Research in Microbiology and Immunology

Data Science Research in Microbiology and Immunology

Co-operative Work Placement IV

Laboratory Research in Microbiology and Immunology

Laboratory Research in Microbiology and Immunology

Laboratory Research in Microbiology and Immunology

Laboratory Research in Microbiology and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

Topics in Molecular Pathogenesis and Immunology

This course is not eligible for Credit/D/Fail grading.

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.

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.

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.

Select the Credit Exclusion List in the Faculty of Science section of the Calendar. This course is not eligible for Credit/D/Fail grading.

Consult the Credit Exclusion List in the Faculty of Science section of the Calendar. This course is not eligible for Credit/D/Fail grading.

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.

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.

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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.
MIDW_V 101-001 MIDW_V 101
Counselling for Maternity Care Providers

In Person Learning

Mon

12:30 p.m. - 2:00 p.m.

Wed

9:00 a.m. - 10:30 a.m.

This course is not eligible for Credit/D/Fail grading.

[18-0-0]

MIDW_V 102-001 MIDW_V 102
Birth and Its Meanings

In Person Learning

Wed

1:30 p.m. - 4:30 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 103-001 MIDW_V 103
Applied Health Services for Maternity Providers

In Person Learning

Thu

9:00 a.m. - 12:30 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 104-001 MIDW_V 104
Lactation and Infant Feeding for Maternity Care Providers

In Person Learning

Wed

1:00 p.m. - 4:00 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 106-001 MIDW_V 106
Reproductive Anatomy and Physiology

In Person Learning

Tue

9:00 a.m. - 12:00 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 107-001 MIDW_V 107
Physical Assessment

In Person Learning

Wed

9:00 a.m. - 12:00 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 108-002 MIDW_V 108
Theoretical Foundations for Midwifery Practice

In Person Learning

Wed

1:30 p.m. - 4:00 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 111-001 MIDW_V 111
Research Methods for Midwives

In Person Learning

Thu

10:00 a.m. - 12:30 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 120-001 MIDW_V 120
Midwifery and Social Justice

In Person Learning

Wed

9:00 a.m. - 12:00 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 125-001 MIDW_V 125
Pharmacology for Maternity Care Providers

In Person Learning

Thu

9:30 a.m. - 11:00 a.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 200-001 MIDW_V 200
Midwifery Clinical Care - Antepartum, Postpartum and Newborn

In Person Learning

Mon-Tue

9:00 a.m. - 4:30 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 201-001 MIDW_V 201
Midwifery Theory for Antepartum, Postpartum and Newborn Care

In Person Learning

Thu

1:00 p.m. - 6:00 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]

MIDW_V 210-001 MIDW_V 210
Evidence-Informed Midwifery

In Person Learning

Thu

9:00 a.m. - 12:00 p.m.

This course is not eligible for Credit/D/Fail grading.

[3-0-0]
In Person Learning

Dialogue and Decisions: Advancing Person-Centred Care

12:30 p.m. - 2:00 p.m.

Midwifery Clinical Care - Variations of Normal

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 of normal. Consists of a one-week intensive time in Vancouver, in which emergency skills certification is acquired, and weekly self-directed tutorials. [1-2-3]

Midwifery Clinical Care - Abnormal and Unexpected Conditions

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 of normal. A 10-week practicum in locations around the province. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Midwifery Theory for Primary Care

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.

Theory for Advanced Midwifery Care

Theoretical course in preparation for global clinical placement. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Midwifery Self-Directed Course

Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.

Clinical Leadership

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.

Midwifery Self-Directed Course

Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.

Midwifery Self-Directed Course

Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.

Midwifery Self-Directed Course

Unique self-directed elective learning opportunities. This course is not eligible for Credit/D/Fail grading.

MINE_V 200-101

Introduction to the mining life cycle and design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social licence to operate. This course is not eligible for Credit/D/Fail grading. [5-6-0]

MINE_V 200-11A

Introduction to the mining life cycle and design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social licence to operate. This course is not eligible for Credit/D/Fail grading. [5-6-0]

MINE_V 200-11B

Introduction to the mining life cycle and design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social licence to operate. This course is not eligible for Credit/D/Fail grading. [5-6-0]
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Schedule</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINE 202-101</td>
<td>Mineral Resources Engineering II</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>MINE 202-12A</td>
<td>Mineral Resources Engineering II</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>MINE 202-101</td>
<td>Mineralogy for Resources Engineering</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>MINE 202-11A</td>
<td>Mineralogy for Resources Engineering</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>MINE 202-11B</td>
<td>Mineralogy for Resources Engineering</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>MINE 204-101</td>
<td>Mineralogy for Mining Engineering</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>MINE 209-101</td>
<td>Seminar</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>MINE 302-201</td>
<td>Underground Mining and Design</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>MINE 302-12A</td>
<td>Underground Mining and Design</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>MINE 303-201</td>
<td>Rock Engineering Fundamentals</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>MINE 303-12A</td>
<td>Rock Engineering Fundamentals</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>MINE 303-12B</td>
<td>Rock Engineering Fundamentals</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>MINE 310-101</td>
<td>Surface Mining and Design</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>MINE 310-11A</td>
<td>Surface Mining and Design</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Fri</td>
</tr>
<tr>
<td>MINE 331-101</td>
<td>Physical Mineral Processes</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon Fri</td>
</tr>
<tr>
<td>MINE 331-11A</td>
<td>Physical Mineral Processes</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>MINE 333-201</td>
<td>Flotation</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>MINE 333-12A</td>
<td>Flotation</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>MINE 350-101</td>
<td>Modelling and Simulation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>MINE 350-11A</td>
<td>Modelling and Simulation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>MINE 380-201</td>
<td>Mine Waste Management</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>MINE 386-101</td>
<td>Engineering Economics</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>MINE 403-101</td>
<td>Mine Ventilation and Occupational Health and Safety</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
</tbody>
</table>

Course Descriptions:
- **Mineral Resources Engineering II**: The design, planning, and operation, and closure of mining operations, with a focus on mineral processing technologies, plant design, waste and tailing management, and the future of mining. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: MINE 200.
- **Mineralogy for Resources Engineering**: Fundamentals of rock and mineral formation. Exploring main techniques used to understand implications of mining and mineral processing. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CHEM 254.
- **Modelling and Simulation**: 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.
- **Engineering Economics**: 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.
- **Surface Mining and Design**: 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. [3-0-2] Prerequisite: Third-year standing.
- **Rock Engineering Fundamentals**: 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.
- **Physical Mineral Processes**: Mineral processing unit operations and sampling, crushing, grinding, screening, classification, gravity separation, magnetic separation, electrostatic separation, concentrate dewatering processes. [3-2-0] Prerequisite: Third-year Standing.
- **Engineering Economics**: Engineering Economics.
- **Surface Mining and Design**: 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINE 402</td>
<td>1LA Mine Ventilation and Occupational Health and Safety</td>
<td>3-0-0</td>
<td>Third-year standing</td>
<td>Design and analysis for ventilation systems for mining. Topics such as ventilation design, ventilation surveys, thermodynamic aspects, psychrometry of air and its conditioning. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing.</td>
</tr>
<tr>
<td>MINE 403</td>
<td>201 Rock Engineering Design</td>
<td>3-0-0</td>
<td>Third-year standing</td>
<td>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 301.</td>
</tr>
<tr>
<td>MINE 404</td>
<td>201 Strategic Issues in Mining</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>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. [2-2-0] Prerequisite: MINE 305.</td>
</tr>
<tr>
<td>MINE 406</td>
<td>201 Mine Project Valuation and Risk Assessment</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>Mine 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 305.</td>
</tr>
<tr>
<td>MINE 420</td>
<td>201 Applied Geostatistics</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>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. [2-2-0] Prerequisite: STAT 251.</td>
</tr>
<tr>
<td>MINE 421</td>
<td>201 Applied Geostatistics</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>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. [2-2-0] Prerequisite: STAT 251.</td>
</tr>
<tr>
<td>MINE 430</td>
<td>101 Mineral Process Control</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>Automatic control theory, PID control, Laplace and transforms, loop tuning, frequency response, stability analysis, control strategies in flotation, concentration, dewatering, magnet and thickener levels, automated load-haul-dump and drilling equipment, instrumentation and soft sensors. This course is not eligible for Credit/D/Fail grading. [2-2-0]</td>
</tr>
<tr>
<td>MINE 432</td>
<td>101 Mineral Process Control</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>Automatic control theory, PID control, Laplace and transforms, loop tuning, frequency response, stability analysis, control strategies in flotation, concentration, dewatering, magnet and thickener levels, automated load-haul-dump and drilling equipment, instrumentation and soft sensors. This course is not eligible for Credit/D/Fail grading. [2-2-0]</td>
</tr>
<tr>
<td>MINE 444</td>
<td>201 Urban Mining: Recovering Value from E-waste</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>Process alternatives and technological considerations; physical and chemical recovery technologies; environmental protection; flow sheet studies. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: MINE 301.</td>
</tr>
<tr>
<td>MINE 446</td>
<td>101 Urban Mining: Recovering Value from E-waste</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>Process alternatives and technological considerations; physical and chemical recovery technologies; environmental protection; flow sheet studies. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: MINE 301.</td>
</tr>
<tr>
<td>MINE 447</td>
<td>101 De-watering of Fine Tailings</td>
<td>2-4-0</td>
<td>Third-year standing</td>
<td>Interparticle forces, GEDO theory of colloid stability, dispersion, coagulation, and flocculation phenomenon; settling, thickening and consolidation processes; polymer in water processing; measurement techniques in tailings treatment; thickness and principle of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: MINE 301.</td>
</tr>
<tr>
<td>MINE 447</td>
<td>101 De-watering of Fine Tailings</td>
<td>2-4-0</td>
<td>Third-year standing</td>
<td>Interparticle forces, GEDO theory of colloid stability, dispersion, coagulation, and flocculation phenomenon; settling, thickening and consolidation processes; polymer in water processing; measurement techniques in tailings treatment; thickness and principle of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: MINE 301.</td>
</tr>
<tr>
<td>MINE 455</td>
<td>201 Mine Water Management</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>Mine water management covering integrated water resource management, water balances, sources, water use optimization, water quality and treatment and long-term sustainability. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: Third-year standing.</td>
</tr>
<tr>
<td>MINE 465</td>
<td>101 Materials Handling</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>Knowledge and understanding of equipment used in mining operations, including diesel, electromechanical, 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.</td>
</tr>
<tr>
<td>MINE 470</td>
<td>101 Indigenous Peoples and Mining in Canada</td>
<td>3-0-0</td>
<td>Fourth-year standing</td>
<td>Historical context of Indigenous peoples of Canada interacts 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.</td>
</tr>
<tr>
<td>MINE 470</td>
<td>201 Indigenous Peoples and Mining in Canada</td>
<td>3-0-0</td>
<td>Fourth-year standing</td>
<td>Historical context of Indigenous peoples of Canada interacts 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: MINE 305.</td>
</tr>
<tr>
<td>MINE 485</td>
<td>201 Cover Mining Systems: Design and Planning</td>
<td>2-2-0</td>
<td>Third-year standing</td>
<td>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. [2-2-0] Prerequisite: MINE 305.</td>
</tr>
</tbody>
</table>
| MINE 486   | 201 Mining and The Environment                 | 3-0-0   | Third-year standing     | 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] Prerequisite: MINE 305.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Units</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MINE</td>
<td>Mine Ventilation</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Minor</td>
</tr>
<tr>
<td>MINE</td>
<td>Mine and Plant Engineering Design Feasibility Study</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Minor</td>
</tr>
<tr>
<td>MINE</td>
<td>Direct Study</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>Requires approval of the department head</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MINE</td>
<td>Topics for Engineers in the Mining Industry</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MINE</td>
<td>Topics for Engineers in the Mining Industry</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MINE</td>
<td>Topics for Engineers in the Mining Industry</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>MINE</td>
<td>Processing of Precious Metal Ores</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>MINE</td>
<td>New Perspectives on Mine Closure</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>MINE</td>
<td>Industrial Expert Systems</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>MINE</td>
<td>Industrial Expert Systems</td>
<td>0.25</td>
<td>0.25</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
</tbody>
</table>
In Person Learning

This course is not eligible for Credit/D/Fail grading. Prerequisite: MINE 581.

5:00 p.m. - 8:00 p.m.

Thu

INDIGENOUS PEOPLES AND MINING IN CANADA

Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading.

5:00 p.m. - 8:00 p.m.

Arranged

Special Advanced Topics

Risk Management of Tailings Storage Facilities

In Person Learning

11:00 a.m. - 12:30 p.m.

Wed

Safety of Tailings Storage Facilities

Permission of instructor is required. This course is not eligible for Credit/D/Fail grading.

2:00 p.m. - 3:00 p.m.

W1

Advanced Mine Site Management

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.

2:00 p.m. - 5:00 p.m.

C_L1A

Online Learning

Mine Economics and Finance

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.

2:00 p.m. - 5:00 p.m.

Mon, Wed, Fri

MINE 552-201

552-L2A

Arranged

Advanced Mine Site Management

Advanced geotechnical, hydrological, and water management aspects of mine waste management. This course is not eligible for Credit/D/Fail grading.

2:00 p.m. - 5:00 p.m.

Arranged

Special Advanced Topics

Mine Waste Management Case Studies

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

10:00 a.m. - 11:30 a.m.

Special Advanced Topics

Mine Waste Management

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

1:30 p.m. - 5:00 p.m.

Special Advanced Topics

Mine Waste Management

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.

Special Advanced Topics

Mine Waste Management

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

1:30 p.m. - 3:30 p.m.

Special Advanced Topics

Mine Waste Management

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. - 3:30 p.m.

Special Advanced Topics

Mine Waste Management

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

10:00 a.m. - 12:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Type</th>
<th>Grade</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MINE_V 590-101</td>
<td>MINE_V 590-101</td>
<td>Special Advanced Topics</td>
<td>W1</td>
<td></td>
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<td>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</td>
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<tr>
<td>MINE_V 590-201</td>
<td>MINE_V 590-201</td>
<td>Special Advanced Topics</td>
<td>W2</td>
<td></td>
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<td>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.</td>
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<td>MINE_V 590-Y</td>
<td>MINE_V 590-Y</td>
<td>Special Advanced Topics</td>
<td>Y_101</td>
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<td>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.</td>
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<tr>
<td>MINE_V 591-101</td>
<td>MINE_V 591-101</td>
<td>Communication Skills and Workplace Readiness</td>
<td>W1</td>
<td></td>
<td></td>
<td>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. 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</td>
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<tr>
<td>MINE_V 597-001</td>
<td>MINE_V 597-001</td>
<td>Engineering Project</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>A project involving laboratory, pilot plant or field work is to be completed in close collaboration within academic advisors. For M.Eng. students only. 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</td>
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<tr>
<td>MINE_V 597-101</td>
<td>MINE_V 597-101</td>
<td>Engineering Project</td>
<td>W1</td>
<td></td>
<td></td>
<td>A project involving laboratory, pilot plant or field work is to be completed in close collaboration within academic advisors. For M.Eng. students only. 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</td>
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<tr>
<td>MINE_V 598-001</td>
<td>MINE_V 598-001</td>
<td>Seminar</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>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. 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 1:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>MINE_V 598-101</td>
<td>MINE_V 598-101</td>
<td>Seminar</td>
<td>W1</td>
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<td>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. 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</td>
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<tr>
<td>MINE_V 598-201</td>
<td>MINE_V 598-201</td>
<td>Seminar</td>
<td>W2</td>
<td></td>
<td></td>
<td>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. 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</td>
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<tr>
<td>MINE_V 599-001</td>
<td>MINE_V 599-001</td>
<td>Seminar</td>
<td>W2</td>
<td></td>
<td></td>
<td>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. 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</td>
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<tr>
<td>MINE_V 599-C_101</td>
<td>MINE_V 599-C_101</td>
<td>M.A.Sc. Thesis</td>
<td>C_101</td>
<td></td>
<td></td>
<td>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</td>
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<td>M.A.Sc. Thesis</td>
<td>C_101</td>
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<tr>
<td>MINE_V 599-C_201</td>
<td>MINE_V 599-C_201</td>
<td>M.A.Sc. Thesis</td>
<td>C_201</td>
<td></td>
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<td>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</td>
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<tr>
<td>MINE_V 608-001</td>
<td>MINE_V 608-001</td>
<td>Seminar</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>Topics in mining and mineral processing for Ph.D. students. 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 1:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>MINE_V 608-101</td>
<td>MINE_V 608-101</td>
<td>Seminar</td>
<td>W1</td>
<td></td>
<td></td>
<td>Topics in mining and mineral processing for Ph.D. students. 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</td>
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<tr>
<td>MINE_V 608-201</td>
<td>MINE_V 608-201</td>
<td>Seminar</td>
<td>W2</td>
<td></td>
<td></td>
<td>Topics in mining and mineral processing for Ph.D. students. 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</td>
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<tr>
<td>MINE_V 609-001</td>
<td>MINE_V 609-001</td>
<td>Doctoral Dissertation</td>
<td>W2-2</td>
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<td>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</td>
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<td>MINE_V 609-101</td>
<td>MINE_V 609-101</td>
<td>Doctoral Dissertation</td>
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<td>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</td>
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<td>MINE_V 609-201</td>
<td>Doctoral Dissertation</td>
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</tbody>
</table>
MRNE_V 430 A 611 MRNE_V 400 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, or at the Marine Centre as a research investigator or as one of the members of WCUMSS. In Person Learning Arranged Arranged

MRNE_V 430 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, or 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 G11 G10 Structure and Function in Marine Animals W1 Principles of classification, evolution, morphology, biomechanics, physiology and biochemistry will be illustrated in representations from a variety of animal phyla. [3-0-3] Prerequisite: Completion of second year in a biology program. In Person Learning Arranged Arranged

MRNE_V 425 610 MRNE_V 425 G11 G10 Ecological Adaptations of Seaweeds W1 Morphological, physiological, genetic and reproductive adaptations of seaweeds to their environments. [3-0-4] Prerequisite: Completion of second year in a biology program. In Person Learning Arranged Arranged

MRNE_V 437 610 MRNE_V 437 G11 G10 Population and Community Ecology of Marine Organisms W1 Emphasis on interactions among organisms and between organisms and their physical chemical environment, and on biological diversity. [3-0-4] Prerequisite: Completion of second year in a biology program. In Person Learning Arranged Arranged

MRNE_V 480 611 MRNE_V 480 G11 Seminars and Papers in Marine Science W1 Instruction in the critical analysis of published research papers and of oral seminars. [2-0-0] 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 to 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. [1-0-2] Prerequisite: One of APSC176, ENGL110, ENGL111, ENGL112, ENGL120, ENGL121, WRDS190. Complementary: MTRL280, Equivalency: APSC201.

MTRL_V 250 101 MTRL_V 250 101 Thermodynamics of Materials I W2 Heat and mass balances applied to materials engineering; thermodynamic principles applied to materials processing; heat of reaction, free energy, activity, phase equilibrium, reactions involving gasses, Ellingham diagrams. [1-2-2] Prerequisite: APSC201.

MTRL_V 250 21A MTRL_V 250 21A 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 gasses, Ellingham diagrams. [1-2-2] Prerequisite: APSC201.


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. [3-0-2] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 190. Complementary: MTRL 280, Equivalency: APSC 201.

MTRL_V 280 21A MTRL_V 280 21A 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. [3-0-2] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 112, ENGL 120, ENGL 121, WRDS 190. Complementary: MTRL 280, Equivalency: APSC 201.

MTRL_V 240 201 MTRL_V 240 201 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 in component performance. This course is not eligible for Credit/D/Fail grading. [3-0-3] Prerequisite: MTRL 250.

MTRL_V 320 21A MTRL_V 320 21A Hydrometallurgy I W1 Aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: MTRL 250.

MTRL_V 320 21A MTRL_V 320 21A Hydrometallurgy I W1 Aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [2-0-3] Prerequisite: MTRL 250.

MTRL_V 320 21A MTRL_V 320 21A 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. [0-0-3] Complementary: MTRL 250.

MTRL_V 350-L1G  MTRL_V 358  L1B  Hydrometalurgy I Laboratory  

Laboratory exercises on aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [3-0-2] Corequisite: MTRL 356.

In Person Learning  Tue  2:00 p.m. - 5:00 p.m.

MTRL_V 350-L1C  MTRL_V 358  L1C  Hydrometalurgy I Laboratory  

Laboratory exercises on aqueous extraction of metals from ores and concentrates. This course is not eligible for Credit/D/Fail grading. [3-0-2] Corequisite: MTRL 356.

In Person Learning  Thu  3:00 p.m. - 6:00 p.m.

MTRL_V 361-T11  MTRL_V 361  101  Modelling of Materials Processes  

Mathematical and physical modeling 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  101  Modelling of Materials Processes  

Mathematical and physical modeling 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-T11  MTRL_V 363  101  Transport Phenomena I - Mass Transport  

Mass transfer fundamentals, gas interdiffusivity, Fick's laws, solid-state diffusion, steady and non-steady state diffusion, mass transfer in aqueous 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. [3-0-2]

In Person Learning  Thu Thu  3:00 p.m. - 5:00 p.m.

MTRL_V 363-T1A  MTRL_V 363  101  Transport Phenomena I - Mass Transport  

Mass transfer fundamentals, gas interdiffusivity, Fick's laws, solid-state diffusion, steady and non-steady state diffusion, mass transfer in aqueous 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. [3-0-2]

In Person Learning  Mon  12:00 p.m. - 2:00 p.m.

MTRL_V 365-201  MTRL_V 365  201  Mechanical Behavior of Materials  

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. [4-0-0]

In Person Learning  Mon Wed Fri  1:00 p.m. - 3:30 p.m.

MTRL_V 378-201  MTRL_V 378  201  Phase Transformations  

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 378-202  MTRL_V 378  201  Phase Transformations  

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  

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*-2] Corequisite: All of MTRL 365, MTRL 378.

In Person Learning  Thu [Alternate week]  2:00 p.m. - 5:00 p.m.

MTRL_V 381-202  MTRL_V 381  202  Structure and Properties Laboratory  

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*-2] Corequisite: All of MTRL 365, MTRL 378.

In Person Learning  Thu [Alternate week]  2:00 p.m. - 5:00 p.m.

MTRL_V 381-203  MTRL_V 381  203  Structure and Properties Laboratory  

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*-2] Corequisite: All of MTRL 365, MTRL 378.

In Person Learning  Thu [Alternate week]  9:00 a.m. - 12:00 p.m.

MTRL_V 381-204  MTRL_V 381  204  Structure and Properties Laboratory  

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*-2] Corequisite: All of MTRL 365, MTRL 378.

In Person Learning  Thu [Alternate week]  9:00 a.m. - 12:00 p.m.

MTRL_V 382-201  MTRL_V 382  201  Ceramics  

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. [3-0-2]

In Person Learning  Arranged  Arranged

MTRL_V 382-2A  MTRL_V 382  2A  Ceramics  

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. [3-0-2]

In Person Learning  Arranged  Arranged

MTRL_V 394-201  MTRL_V 394  201  Polymers  

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. [5-0-4]

In Person Learning  Mon Wed Fri  10:00 a.m. - 11:00 a.m.

MTRL_V 394-2A  MTRL_V 394  2A  Polymers  

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. [5-0-4]

In Person Learning  Thu  12:00 p.m. - 2:00 p.m.

MTRL_V 430-201  MTRL_V 430  201  Aerospace Materials and Manufacturing  

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. [3-0-2]

In Person Learning  Tue Thu  1:00 p.m. - 3:30 p.m.

MTRL_V 451-101  MTRL_V 451  101  Microstructural Analysis Laboratory  

Basic principles and techniques of microstructural analysis with particular reference to engineered materials including e.g., SEM, microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [3-0-2]

In Person Learning  Mon  1:00 p.m. - 2:30 p.m.

MTRL_V 451-11A  MTRL_V 451  11A  Microstructural Analysis Laboratory  

Basic principles and techniques of microstructural analysis with particular reference to engineered materials including e.g., SEM, microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [3-0-2]

In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

MTRL_V 451-11B  MTRL_V 451  11B  Microstructural Analysis Laboratory  

Basic principles and techniques of microstructural analysis with particular reference to engineered materials including e.g., SEM, microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [3-0-2]

In Person Learning  Fri  10:00 a.m. - 1:00 p.m.

MTRL_V 451-101  MTRL_V 451  101  Economic Aspects of Materials Engineering  

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. - 2:30 p.m.

MTRL_V 451-11A  MTRL_V 451  11A  Economic Aspects of Materials Engineering  

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. - 10:30 a.m.

MTRL_V 451-201  MTRL_V 451  201  Environmental Degradation of Materials  

Fundamental aspects of environmental degradation of metals (corrosion), ceramics, and polymers, with an emphasis on aqueous environments. This course is not eligible for Credit/D/Fail grading. [3-0-2]

In Person Learning  Mon Wed  11:00 a.m. - 12:00 p.m.
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Degradation of Materials</td>
<td>2</td>
<td>W2</td>
<td>Tue Thu Fri</td>
<td>4:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning Thru 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>Casting Technology</td>
<td>2</td>
<td>W2</td>
<td></td>
<td></td>
<td>Various casting technologies related to the automotive and aerospace sector will be covered, including upstream liquid metal processing. [2-0-2]</td>
</tr>
<tr>
<td>Hydrometallurgy II</td>
<td>2</td>
<td>W2</td>
<td></td>
<td></td>
<td>Leaching, purification, precipitation, regeneration, thermodynamics and kinetics of separation steps, electrochemical applications. This course is not eligible for Credit/D/Fail grading. [3-0-3]</td>
</tr>
<tr>
<td>Welding and Joining of Materials</td>
<td>3</td>
<td>W2</td>
<td></td>
<td></td>
<td>Various welding and joining technologies will be covered, including design of welding and joining procedures. This course is not eligible for Credit/D/Fail grading. [3-0-3]</td>
</tr>
<tr>
<td>Welding and Joining of Materials</td>
<td>3</td>
<td>W2</td>
<td></td>
<td></td>
<td>Case studies addressing temperature modeling, weld pool analysis, and mechanical analysis of joints, and design of welding and joining procedures. This course is not eligible for Credit/D/Fail grading. [3-0-3]</td>
</tr>
<tr>
<td>Microstructure Engineering</td>
<td>2</td>
<td>W2</td>
<td></td>
<td></td>
<td>Case studies addressing optimization and control of microstructure evolution of materials. This course is not eligible for Credit/D/Fail grading. [2-0-2]</td>
</tr>
<tr>
<td>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]</td>
<td></td>
<td>W2</td>
<td></td>
<td></td>
<td>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]</td>
</tr>
</tbody>
</table>
In Person Learning

101 475  T1A  Microstructure Engineering  W2  Follows the production of metallic products, focusing on or process design models used to describe solidification, recrystallization, and precipitation. This course is not eligible for Credit/D/Fail grading. [2-0-2]

MTRL_V 470-201  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. [2-0-2]

MTRL_V 484-201  MTRL_V  484  201  Materials for Aerostuctures and Engines  W2  Engineering theory of aerostuctural materials such as 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 allowances, structural certification. [3-0-0]

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]

MTRL_V 485-21A  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]

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. [3-0-0]

MTRL_V 486-21A  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. [3-0-0]

MTRL_V 494-101  MTRL_V  494  101  Composite Materials  W1  Understanding the properties and the mechanical behavior of composite materials with emphasis on analysis, design, and manufacturing. This course is not eligible for Credit/D/Fail grading. [3-0-0]

MTRL_V 495-201  MTRL_V  495  201  Biomedical Materials  W2  Enginered materials in medical applications with an emphasis on material properties, functionally, design, and material response in the biological environment. This course is not eligible for Credit/D/Fail grading. [3-0-0]

MTRL_V 495-21A  MTRL_V  495  T2A  Biomedical Materials  W2  Enginered materials in medical applications with an emphasis on material properties, functionally, design, and material response in the biological environment. This course is not eligible for Credit/D/Fail grading. [3-0-0]

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. [3-0-2]

MTRL_V 496-21A  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. [3-0-2]

MTRL_V 497-B_101  MTRL_V  497  B  B_101  Special Topics in Materials Engineering  W1  This course is not eligible for Credit/D/Fail grading. In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.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. [2-0-2]

MTRL_V 530-201  MTRL_V  530  201  Advanced Hydrometallurgy  W2  Batch leaching kinetics; leaching mechanisms; statistical methods for design of multiparticle continuous leaching reactors; coupled heat and mass balances, mixing phenomena, side and precipitation reactions; complex mineralogical feeds, heap and dump leaching. This course is not eligible for Credit/D/Fail grading. [3-0-2]

MTRL_V 564-201  MTRL_V  564  201  Hydrogeological 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, side and precipitation reactions; complex mineralogical feeds, heap and dump leaching. This course is not eligible for Credit/D/Fail grading. [3-0-2]

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. [2-0-2]

MTRL_V 570-201  MTRL_V  570  201  Microstructural Evolution of Deformed Materials  W2  Physical mechanisms of microstructure evolution; structure, energy and mobility 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. [4-0-2]

MTRL_V 570-21A  MTRL_V  570  T2A  Microstructural Evolution of Deformed Materials  W2  Physical mechanisms of microstructure evolution; structure, energy and mobility 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. [4-0-2]

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. [2-0-2]

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  9:00 a.m. - 11:00 a.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
MUSC_V 107-C_D02  MUSC_V 107  C  C_D02  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 major; 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  Cello Strings 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 119-011  MUSC_V 119  011  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 119-012  MUSC_V 119  012  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 119-013  MUSC_V 119  013  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 119-014  MUSC_V 119  014  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 119-015  MUSC_V 119  015  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  Thu-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  Thu-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 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 128-003  MUSC_V 128  003  Music and Human Experience  W1  A multi-disciplinary survey of music in selected world traditions and genres, connecting 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 128-004  MUSC_V 128  004  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  Arranged

MUSC_V 130-001  MUSC_V 130  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 program by permission of the instructor.  In Person Learning  Mon-Wed 10:00 a.m. - 12:00 p.m.

MUSC_V 130-002  MUSC_V 130  002  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 program by permission of the instructor.  In Person Learning  Mon-Wed 10:00 a.m. - 12:00 p.m.

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 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 11:00 a.m. - 12:00 p.m.

MUSC_V 148-001  MUSC_V 148  001  Collaborative Piano I  W1-2  Skills and performance practice with primary emphasis on voicing/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. - 6:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC_V 150-A_001</td>
<td>150</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>Large Instrumental Ensemble (Lower Years)</td>
<td>Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MUSC_V 150-A_011</td>
<td>150</td>
<td>A</td>
<td>A_011</td>
<td>W1-2</td>
<td>Large Instrumental Ensemble (Lower Years)</td>
<td>Performance of contemporary music. An ensemble of variable size, including both instrumentalists and vocalists. 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.</td>
</tr>
<tr>
<td>MUSC_V 150-A_012</td>
<td>150</td>
<td>A</td>
<td>A_012</td>
<td>W1-2</td>
<td>Large Instrumental Ensemble (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 150-C_001</td>
<td>150</td>
<td>C</td>
<td>C_001</td>
<td>W1-2</td>
<td>Large Instrumental Ensemble (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 150-J_001</td>
<td>150</td>
<td>J</td>
<td>J_001</td>
<td>W1-2</td>
<td>Large Instrumental Ensemble (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 152-A_001</td>
<td>152</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>University Choir Union (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 152-A_002</td>
<td>152</td>
<td>A</td>
<td>A_002</td>
<td>W2</td>
<td>Vocal Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 152-B_001</td>
<td>152</td>
<td>B</td>
<td>B_001</td>
<td>W1-2</td>
<td>Vocal Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 152-C_001</td>
<td>152</td>
<td>C</td>
<td>C_001</td>
<td>W1-2</td>
<td>Vocal Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 152-C_002</td>
<td>152</td>
<td>C</td>
<td>C_002</td>
<td>W2</td>
<td>Vocal Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 157-A_001</td>
<td>157</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>Early Music Ensemble (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 160-A_001</td>
<td>160</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>String Chamber Ensemble (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 160-C_001</td>
<td>160</td>
<td>C</td>
<td>C_001</td>
<td>W1-2</td>
<td>String Chamber Ensemble (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 160-E_001</td>
<td>160</td>
<td>E</td>
<td>E_001</td>
<td>W1-2</td>
<td>String Chamber Ensemble (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 161-A_001</td>
<td>161</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>Piano Chamber Ensembles (Lower Years)</td>
<td>Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>MUSC_V 162-A_001</td>
<td>162</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>Wind and Percussion Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 162-B_001</td>
<td>162</td>
<td>B</td>
<td>B_001</td>
<td>W1-2</td>
<td>Wind and Percussion Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 162-C_001</td>
<td>162</td>
<td>C</td>
<td>C_001</td>
<td>W1-2</td>
<td>Wind and Percussion Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 162-D_001</td>
<td>162</td>
<td>D</td>
<td>D_001</td>
<td>W1-2</td>
<td>Wind and Percussion Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 162-F_001</td>
<td>162</td>
<td>F</td>
<td>F_001</td>
<td>W1-2</td>
<td>Wind and Percussion Chamber Ensembles (Lower Years)</td>
<td>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.</td>
</tr>
<tr>
<td>MUSC_V 163-A_001</td>
<td>163</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>Contemporary Players (Lower Years)</td>
<td>Performance of contemporary music. An ensemble of variable size, including both instrumentalists and vocalists, 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.</td>
</tr>
<tr>
<td>MUSC_V 164-A_001</td>
<td>164</td>
<td>A</td>
<td>A_001</td>
<td>W1-2</td>
<td>Jazz Ensemble (Lower Years)</td>
<td>Performance techniques and repertoire. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Section</td>
<td>Instructor</td>
<td>Title</td>
<td>Meeting Times</td>
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<tr>
<td>MUSC_V 171-A_001</td>
<td>165</td>
<td>A</td>
<td>Private instruction, vocal or instrumental.</td>
<td>In Person Learning Tue Thu 1:30 p.m. - 3:00 p.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSC_V 171-B_001</td>
<td>165</td>
<td>B</td>
<td>World Music Ensembles (Lower Years)</td>
<td>In Person Learning Wed Fri 1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>MUSC_V 171-D_001</td>
<td>165</td>
<td>D</td>
<td>World Music Ensembles (Lower Years)</td>
<td>In Person Learning Tue Thu 5:30 p.m. - 7:00 p.m.</td>
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<tr>
<td>MUSC_V 167-001</td>
<td>167</td>
<td>001</td>
<td>Introduction to Piano Chamber Music</td>
<td>In Person Learning Mon 2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>MUSC_V 169-A_001</td>
<td>169</td>
<td>A</td>
<td>Intensive Chamber Ensemble (Lower Years)</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>MUSC_V 169-B_001</td>
<td>169</td>
<td>B</td>
<td>Intensive Chamber Ensemble (Lower Years)</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>MUSC_V 169-C_001</td>
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<td>MUSC_V 169-E_001</td>
<td>169</td>
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<td>Intensive Chamber Ensemble (Lower Years)</td>
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<tr>
<td>MUSC_V 170-001</td>
<td>170</td>
<td>001</td>
<td>Lyric Diction</td>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:00 p.m.</td>
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<td>MUSC_V 171-A_001</td>
<td>171</td>
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<td>MUSC_V 171-B_700</td>
<td>171</td>
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<tr>
<td>MUSC_V 182-A_001</td>
<td>182</td>
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<td>Music Performance (Concentration)</td>
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<td>MUSC_V 182-A_700</td>
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<td>MUSC_V 182-B_001</td>
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<tr>
<td>MUSC_V 182-C_701</td>
<td>182</td>
<td>C</td>
<td>Music Performance (Concentration)</td>
<td>In Person Learning Arranged</td>
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</table>
Further development of skills and performance practice with primary emphasis on wind/woodwind partnership principles and repertoire. Strong sight-reading skills essential. For Flute majors; open to others by audition. Prerequisite: MUSC 207. In Person Learning. We 2:00 p.m. - 3:00 p.m.

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

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 analytic, compositional, and musicianship exercises. Prerequisite: MUSC 200. In Person Learning. Mon Wed 9:00 a.m. - 10:00 a.m.

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 analytic, compositional, and musicianship exercises. Prerequisite: MUSC 200. In Person Learning. Fri 11:00 a.m. - 12:00 p.m.

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 analytic, compositional, and musicianship exercises. Prerequisite: MUSC 200. In Person Learning. Fri 1:00 p.m. - 2:00 p.m.

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 analytic, compositional, and musicianship exercises. Prerequisite: MUSC 200. In Person Learning. Fri 2:00 p.m. - 3:00 p.m.

Lab study 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.

Compositions of MUSC 207. Prerequisite: MUSC 207 and permission of Composition Division. Based on submission of scores. In Person Learning. Mon 10:00 a.m. - 1:00 p.m.

Compositions of MUSC 207. Prerequisite: MUSC 207 and permission of Composition Division. Based on submission of scores. In Person Learning. Mon 10:00 a.m. - 1:00 p.m.

The study of upper staffs, tieing, slurs, dots, and other notational practices. Prerequisite: MUSC 207 and completion of the second-year piano requirement. In Person Learning. Mon Wed 11:00 a.m. - 12:00 p.m.

The study of orchestration through the analysis of orchestral scores, listening and scoring projects. Activities also include choral arranging and scoring for stage band and wind ensembles. Prerequisite: MUSC 207. In Person Learning. Mon Wed 9:30 a.m. - 11:00 a.m.

Basic conducting techniques: patterns, 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. - 11:00 a.m.

The relation of conducting to instrumental sound; development of practical skills in directing ensembles and reading scores, considering instruments' special characteristics. Prerequisite: MUSC 201. In Person Learning. Mon Wed 10:00 a.m. - 11:00 a.m.

The relation of conducting to choral sound; development of practical skills in directing ensembles and reading scores. Prerequisite: MUSC 207 and completion of the second-year piano requirement. In Person Learning. Mon Wed 11:00 a.m. - 12:00 p.m.

Study of acoustic, audio technology, and electroacoustic composition. Composition of original works using the UBC Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119 or one of MUSC 199, MUSC 200. Permission of instructor is also required. In Person Learning. Mon Wed Fri 2:00 p.m. - 3:00 p.m.

Study of acoustic, audio technology, and electroacoustic composition. Composition of original works using the UBC Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119 or one of MUSC 199, MUSC 200. Permission of instructor is also required. In Person Learning. Mon Wed Fri 11:00 a.m. - 12:00 p.m.

The relation of conducting gestures to instrumental sound; development of practical skills in directing ensembles and reading scores, considering instruments' special characteristics. Prerequisite: MUSC 201. In Person Learning. Mon Wed 10:00 a.m. - 11:00 a.m.

Composition of original works using the UBC Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119, or one of MUSC 199, MUSC 200. Permission of instructor is also required. In Person Learning. Mon Wed Fri 11:00 a.m. - 12:00 p.m.

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. Prerequisite: MUSC 200. In Person Learning. Mon Wed 10:00 a.m. - 11:00 a.m.

Study of acoustic, audio technology, and electroacoustic composition. Composition of original works using the UBC Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119, or one of MUSC 199, MUSC 200. Permission of instructor is also required. In Person Learning. Mon Wed Fri 11:00 a.m. - 12:00 p.m.

Composition of original works using the UBC Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119, or one of MUSC 199, MUSC 200. Permission of instructor is also required. In Person Learning. Mon Wed Fri 2:00 p.m. - 3:00 p.m.

Genres of popular music from 1950 to the present and their changing aesthetic, social, cultural, and historical dimensions. Prerequisite: MUSC 200. In Person Learning. Mon Wed 10:00 a.m. - 11:00 a.m.

Introduction to the principles of ethnomusicology and an examination of at least two contrasting Western and non-Western musical systems. Prerequisite: MUSC 201. In Person Learning. Mon Wed 9:30 a.m. - 11:00 a.m.

Basic techniques and rhythms of continuous playing. Open to keyboard players with no previous harpsichord experience. In Person Learning. Mon Wed 10:30 a.m. - 12:00 p.m.
MUSC_V 336-001  Opera Theatre Technique I  WI-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-We  1:00 p.m. - 3:00 p.m.

MUSC_V 338-C_001  Opera Workshop I  WI-2  Participation in performances by the School. Open to: All students outside Music without credit, after audition.  In Person Learning  Mon-We  4:00 p.m. - 7:00 p.m.

MUSC_V 340-001  Piano Pedagogy I: Theory and Studio Management  WI-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 345-001  Keyboard Harmony and Transposition  WI-2  Designed for the keyboard performance major and keyboard concentrator in General Studies.  In Person Learning  Tue  1:00 p.m. - 2:00 p.m.

MUSC_V 350-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 160.  In Person Learning  Arranged  Arranged

MUSC_V 350-C_001  Large Instrumental Ensemble (Upper Years)  WI-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 160.  In Person Learning  Mon-We  6:00 p.m. - 8:00 p.m.

MUSC_V 350-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 160.  In Person Learning  Arranged  Arranged

MUSC_V 354-001  Baroque Music  W2  Prerequisite: MUSC 122.  In Person Learning  Mon-We  11:00 a.m. - 12:30 p.m.

MUSC_V 360-A_001  String Chamber Ensembles (Upper Years)  WI-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-We  Fri  3:00 p.m. - 6:00 p.m.

MUSC_V 360-E_001  String Chamber Ensembles (Upper Years)  WI-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. - 5:30 p.m.

MUSC_V 361-A_001  Piano Chamber Ensembles (Upper Years)  WI-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-We  3:00 p.m. - 6:00 p.m.

MUSC_V 362-A_001  Wind and Percussion Chamber Ensembles (Upper Years)  WI-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  Wind and Percussion Chamber Ensembles (Upper Years)  WI-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 362-C_001  Wind and Percussion Chamber Ensembles (Upper Years)  WI-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  Wind and Percussion Chamber Ensembles (Upper Years)  WI-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  History and Repertoire of the Guitar and Related Instruments  WI-2  Historical 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 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 traditional systems, continental nationalism, historical ornamentation and pedagogical systems. Prerequisite: MUSC221.  In Person Learning  Arranged  Arranged

MUSC_V 365-001  Song Repertoire I  WI-2  An exploration of the solo art song repertoire from 1400 to the Romantic period. Repertoire emphasis is on the performer and teacher will be guided through live and recorded performance with special attention given to poetic content and musical style. Prerequisite: [MUSC222].  In Person Learning  Fri  2:00 p.m. - 3:30 p.m.

MUSC_V 366-A_001  University Choral Union (Upper Years)  WI-2  May be taken twice for credit. Open to: All 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  Thu-Th  5:00 p.m. - 7:00 p.m.

MUSC_V 371-S_001  Music Performance (Secondary)  W1  Private instruction, vocal or instrumental. Prerequisite: One of MUSC 271, MUSC 272, MUSC 281, MUSC 288, MUSC 291, MUSC 292, MUSC 293.  In Person Learning  Tue  2:30 p.m. - 4:30 p.m.

MUSC_V 402-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  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  Special Projects  WI-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
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<th>Course Code</th>
<th>Course Name</th>
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<th>Credits</th>
<th>Description</th>
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<td>MUSC_V 403-B-001</td>
<td>Selected Topics in Music</td>
<td>W2</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<td>MUSC_V 403-C-001</td>
<td>Selected Topics in Music</td>
<td>W1</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<td>MUSC_V 403-D-001</td>
<td>Selected Topics in Music</td>
<td>W1</td>
<td>1-2</td>
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<tr>
<td>MUSC_V 403-E-001</td>
<td>Selected Topics in Music</td>
<td>W1</td>
<td>1-2</td>
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<tr>
<td>MUSC_V 403-F-001</td>
<td>Selected Topics in Music</td>
<td>W1</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<tr>
<td>MUSC_V 403-H-001</td>
<td>Selected Topics in Music</td>
<td>W1</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<tr>
<td>MUSC_V 403-I-001</td>
<td>Selected Topics in Music</td>
<td>W2</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<td>MUSC_V 403-R-001</td>
<td>Selected Topics in Music</td>
<td>W2</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<td>MUSC_V 403-U-001</td>
<td>Selected Topics in Music</td>
<td>W1</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<td>MUSC_V 403-W-001</td>
<td>Selected Topics in Music</td>
<td>W1</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<tr>
<td>MUSC_V 403-Y-001</td>
<td>Selected Topics in Music</td>
<td>W2</td>
<td>1-2</td>
<td>See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students.</td>
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<tr>
<td>MUSC_V 407-C-001</td>
<td>Composition IV</td>
<td>W1-2</td>
<td>1-2</td>
<td>Continuation of MUSC 307. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>MUSC_V 411-001</td>
<td>Analysis of Tonal Music</td>
<td>W1</td>
<td>1-2</td>
<td>Analytical approaches that complement Schenkerian analysis, including metric construction, harmonic rhythm and phrase rhythm, chromaticism and enharmonicism, textures of musical form, aspects of structure and hierarchy at the small and large scale. Prerequisite: MUSC 305.</td>
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<tr>
<td>MUSC_V 412-001</td>
<td>Analytical Studies in the Development of Musical Modernism (1860 - 1940)</td>
<td>W2</td>
<td>1-2</td>
<td>Analytical approaches that complement Schenkerian analysis, including metric construction, harmonic rhythm and phrase rhythm, chromaticism and enharmonicism, textures of musical form, aspects of structure and hierarchy at the small and large scale. Prerequisite: MUSC 305.</td>
</tr>
<tr>
<td>MUSC_V 413-001</td>
<td>Contemporary Art Music: Theory and Analysis</td>
<td>W2</td>
<td>1-2</td>
<td>Analytical studies in analyzing and writing in contemporary art music. Prerequisite: MUSC 305.</td>
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<tr>
<td>MUSC_V 414-001</td>
<td>Counterpoint</td>
<td>W1</td>
<td>1-2</td>
<td>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 305.</td>
</tr>
<tr>
<td>MUSC_V 415-A-001</td>
<td>Interactive Performance Systems</td>
<td>W1</td>
<td>1-2</td>
<td>Supervised individual music technology project on an approved topic. Restricted to students in the Minor in Applied Music Technology. Prerequisite: MUSC 414.</td>
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MUSC_V 440-A_001  MUSIC_V 492  C  C_001  Song Interpretation  W1-2  Interpretation and performance practice of Art Song repertoire for voice and piano collaborations. Restricted to MUsC and MIUsC 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  MUSIC_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 joint-writing, reviews, press kits, publicity, recordings, and marketing. Restricted to fourth-year B.Mus. students.  In Person Learning  Mon-Wed  9:30 a.m. - 11:00 a.m.

MUSC_V 453-A_001  MUSIC_V 453  A  A_001  University Singers (Upper Years)  W1-2  May be taken twice for credit. Open to students by audition, with credit, as stipulated by their facilities. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 153.  In Person Learning  Thu  1:00 p.m. - 3:00 p.m.

MUSC_V 455-001  MUSIC_V 455  001  History of Opera II  W2  The development of opera between 1800 and the present. Prerequisite: All of MUSIC 232, MUSIC 233.  In Person Learning  Mon-Wed  8:30 a.m. - 10:00 a.m.

MUSC_V 456-A_001  MUSIC_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 facilities. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 156.  In Person Learning  Thu  7:00 p.m. - 9:30 p.m.

MUSC_V 456-B_001  MUSIC_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 facilities. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 156.  In Person Learning  Thu  7:00 p.m. - 9:30 p.m.

MUSC_V 456-C_001  MUSIC_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 facilities. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 156.  In Person Learning  Mon-Wed  4:30 p.m. - 6:00 p.m.

MUSC_V 457-A_001  MUSIC_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 facilities. Restricted to students with 3rd year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 157.  In Person Learning  Mon  1:00 p.m. - 3:00 p.m.

MUSC_V 460-A_001  MUSIC_V 460  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: MUSIC 165.  In Person Learning  Mon-Wed Fri  2:00 p.m. - 3:30 p.m.

MUSC_V 464-A_001  MUSIC_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: MUSIC 164.  In Person Learning  Tue  8:00 p.m. - 10:00 p.m.

MUSC_V 466-A_001  MUSIC_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: MUSIC 166.  In Person Learning  Tue Thu  1:30 p.m. - 2:30 p.m.

MUSC_V 466-B_001  MUSIC_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: MUSIC 166.  In Person Learning  Wed-Fri  1:30 p.m. - 2:30 p.m.

MUSC_V 466-D_001  MUSIC_V 466  D  D_001  World Music Ensembles (Upper Years)  W1-2  Group projects and workshops with students majoring in other creative arts. Prerequisite: Permission of instructor. Credit will be granted for only one of MUSIC 466 or THTR 469 or VISA 469 or CMTH 461. Equivalency: THTR 466, VISA 468, CRWR 440, CMTH 461.  In Person Learning  Wed  12:00 p.m. - 2:30 p.m.

MUSC_V 469-A_001  MUSIC_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 MUSIC 466 or THTR 469 or VISA 469 or CMTH 461. Equivalency: THTR 466, VISA 468, CRWR 440, CMTH 461.  In Person Learning  Wed  12:00 p.m. - 2:30 p.m.

MUSC_V 500-A_001  MUSIC_V 500  A  A_001  Advanced Musical Analysis  W1  Recommended pre-requisite: one of MUSIC 450, MUSIC 461, MUSIC 412, MUSIC 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  MUSIC_V 500  B  B_001  Advanced Musical Analysis  W2  Recommended pre-requisite: one of MUSIC 450, MUSIC 461, MUSIC 412, MUSIC 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  MUSIC_V 500  C  C_001  Advanced Musical Analysis  W2  Recommended pre-requisite: one of MUSIC 450, MUSIC 461, MUSIC 412, MUSIC 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 506-A_001  MUSIC_V 506  A  A_001  Reading 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  MUSIC_V 507  C  C_001  Composition  W1-2  A continuation of MUSIC 507. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 507.  In Person Learning  Mon  12:00 p.m. - 1:00 p.m.

MUSC_V 508-C_001  MUSIC_V 508  C  C_001  Composition  W1-2  A continuation of MUSIC 507. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 507.  In Person Learning  Mon  12:00 p.m. - 1:00 p.m.

MUSC_V 509-B_001  MUSIC_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  MUSIC_V 512  A  A_001  Directed Individual Studies  W1  Recommended pre-requisite: one of MUSIC 450, MUSIC 461, MUSIC 412, MUSIC 413. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

MUSC_V 512-A_003  MUSIC_V 512  A  A_003  Directed Individual Studies  W1-2  Recommended pre-requisite: one of MUSIC 450, MUSIC 461, MUSIC 412, MUSIC 413. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.  In Person Learning  Arranged  Arranged
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**Notes:**
- This course is not eligible for Credit/D/Fail grading.
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<td>Contemporary Musicians</td>
<td>W1-2</td>
<td>Open only to graduate students. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-A_001</td>
<td>MUSC_V 569-A</td>
<td>A</td>
<td>A_001</td>
<td>Jazz Ensembles</td>
<td>W1-2</td>
<td>Open only to graduate students. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-A_001</td>
<td>MUSC_V 569-A</td>
<td>A</td>
<td>A_001</td>
<td>World Music Ensembles</td>
<td>W1-2</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-B_001</td>
<td>MUSC_V 569-B</td>
<td>B</td>
<td>B_001</td>
<td>World Music Ensembles</td>
<td>W1-2</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-D_001</td>
<td>MUSC_V 569-D</td>
<td>D</td>
<td>D_001</td>
<td>World Music Ensembles</td>
<td>W1-2</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-A_001</td>
<td>MUSC_V 569-A</td>
<td>A</td>
<td>A_001</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W1-2</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-A_001</td>
<td>MUSC_V 569-A</td>
<td>A</td>
<td>A_001</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W1-2</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-B_001</td>
<td>MUSC_V 569-B</td>
<td>B</td>
<td>B_001</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W1</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-B_002</td>
<td>MUSC_V 569-B</td>
<td>B</td>
<td>B_002</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W1</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-C_001</td>
<td>MUSC_V 569-C</td>
<td>C</td>
<td>C_001</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W2</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-C_002</td>
<td>MUSC_V 569-C</td>
<td>C</td>
<td>C_002</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W2</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-D_001</td>
<td>MUSC_V 569-D</td>
<td>D</td>
<td>D_001</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W1</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-D_002</td>
<td>MUSC_V 569-D</td>
<td>D</td>
<td>D_002</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W1</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-D_117</td>
<td>MUSC_V 569-D</td>
<td>D</td>
<td>D_117</td>
<td>Intensive Specialized Chamber Ensemble</td>
<td>W1</td>
<td>Intensive coaching. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 569-A_001</td>
<td>MUSC_V 569-A</td>
<td>A</td>
<td>A_001</td>
<td>Readings in Orchestral Repertoire</td>
<td>W1-2</td>
<td>Combined with MUSC 567. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Section</td>
<td>Credits</td>
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<tr>
<td>MUSIC_V 607</td>
<td>Composition</td>
<td>C</td>
<td>C_001</td>
<td>Further study for doctoral candidates in Composition. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>MUSIC_V 649</td>
<td>Ph.D. Dissertation or D.M.A. Thesis</td>
<td>001</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>MUSIC_V 649</td>
<td>Ph.D. Dissertation or D.M.A. Thesis</td>
<td>002</td>
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<td>In Person Learning</td>
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<td>MUSIC_V 649</td>
<td>Ph.D. Dissertation or D.M.A. Thesis</td>
<td>003</td>
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<td>In Person Learning</td>
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<td>MUSIC_V 649</td>
<td>Ph.D. Dissertation or D.M.A. Thesis</td>
<td>004</td>
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<td>In Person Learning</td>
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<td>NAME_V 501-2</td>
<td>NAME_V 501-201 Advanced Ship Structures</td>
<td>W2</td>
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<td>In Person Learning</td>
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<tr>
<td>NAME_V 502-2</td>
<td>NAME_V 502-201 Advanced Ship Hydrodynamics</td>
<td>W2</td>
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<td>In Person Learning</td>
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<tr>
<td>NAME_V 522-2</td>
<td>NAME_V 522-201 Ship Production and Industrial Engineering</td>
<td>W2</td>
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<td>In Person Learning</td>
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<tr>
<td>NAME_V 524-1</td>
<td>NAME_V 524-101 Shipbuilding Project Management</td>
<td>W1</td>
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<tr>
<td>NAME_V 546-2</td>
<td>NAME_V 546-201 Ship Dynamics and Control</td>
<td>W2</td>
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<td>In Person Learning</td>
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<td>NAME_V 578-1</td>
<td>NAME_V 578-101 Marine Engineering</td>
<td>W1</td>
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<tr>
<td>NAME_V 581-1</td>
<td>NAME_V 581-201 Introduction to Ship Design</td>
<td>W1</td>
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<td>In Person Learning</td>
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<tr>
<td>NEST_V 101-102</td>
<td>NEST_V 101-102 Introduction to Near Eastern and Egyptian Archaeology</td>
<td>W1</td>
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<td>In Person Learning</td>
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<td>NORD_V 322-B</td>
<td>NORD_V 322-B-101 Nordic Studies in Focus</td>
<td>B</td>
<td>B_101</td>
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<tr>
<td>NORD_V 322-B</td>
<td>NORD_V 322-B-201 Nordic Studies in Focus</td>
<td>B</td>
<td>B_201</td>
<td>In Person Learning</td>
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<td>NORD_V 333-1</td>
<td>NORD_V 333-201 Nordic Literary Cultures</td>
<td>201</td>
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<td>NORD_V 334-1</td>
<td>NORD_V 334-101 Nordic Contemporary Fiction</td>
<td>101</td>
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<td>NORD_V 337-1</td>
<td>NORD_V 337-201 Nordic Cinema</td>
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<td>In Person Learning</td>
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<tr>
<td>NORD_V 339-1</td>
<td>NORD_V 339-201 Norse Mythology</td>
<td>201</td>
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<td>In Person Learning</td>
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<td>NORD_V 340-1</td>
<td>NORD_V 340-201 Sámi Histories and Cultures</td>
<td>201</td>
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<td>In Person Learning</td>
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<tr>
<td>NORD_V 341-1</td>
<td>NORD_V 341-101 Indigenous Activism</td>
<td>101</td>
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<td>In Person Learning</td>
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<tr>
<td>NORD_V 414-201</td>
<td>NORD_V 414-201 Topics in Northern European Cultural Studies</td>
<td>W2</td>
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<td>Course Code</td>
<td>Credits</td>
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<tr>
<td>NRES 100-101</td>
<td>100</td>
<td>Communications Strategies</td>
<td>Pursuing Innovative Solutions to Big Questions in Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>NRES 103-101</td>
<td>100</td>
<td>Pathways in Natural Resources</td>
<td>Exploration of disciplines within natural resources, including majors in the B.Sc. in Natural Resources degree, potential career pathways, and postgraduate education options. In Person Learning Arranged</td>
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<tr>
<td>NRES 103-101</td>
<td>201</td>
<td>Pathways in Natural Resources</td>
<td>Exploration of disciplines within natural resources, including majors in the B.Sc. in Natural Resources degree, potential career pathways, and postgraduate education options. In Person Learning Arranged</td>
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<tr>
<td>NRES 110-101</td>
<td>110</td>
<td>Forest Plant Biology I</td>
<td>The structure, diversity and development of trees and other plants, with emphasis on the angiosperms. Credit will be granted for only one of NRES 100 or FRST 201. (3-2-0) Prerequisite: WDS 121. Equivalency: FRST 200</td>
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<tr>
<td>NRES 200-101</td>
<td>200</td>
<td>Forest Plant Biology II</td>
<td>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; biodiversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. (3-2-0) Co-requisite: One of NRES 202, FRST 200. Equivalency: FRST 200</td>
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<tr>
<td>NRES 201-101</td>
<td>201</td>
<td>Forest Ecology</td>
<td>The functional biology of trees and other forest plants in their environment, with an emphasis on 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 210 or FRST 210. (3-2-0) Prerequisite: One of NRES 201, FRST 201. Equivalency: FRST 201</td>
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<tr>
<td>NRES 210-01</td>
<td>210</td>
<td>Forest Classification and GIS</td>
<td>Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry, Planning, and Forest Management. Credit will be granted for only one of NRES 225 or WOOD 225. (3-0-0) Prerequisite: Three credits of first-year English. Equivalency: WOOD 225</td>
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<tr>
<td>NRES 225-101</td>
<td>225</td>
<td>Communications Strategies</td>
<td>Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry, Planning, and Forest Management. Credit will be granted for only one of NRES 225 or WOOD 225. (3-0-0) Prerequisite: Three credits of first-year English. Equivalency: WOOD 225</td>
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<tr>
<td>NRES 225-102</td>
<td>225</td>
<td>Communications Strategies</td>
<td>Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry, Planning, and Forest Management. Credit will be granted for only one of NRES 225 or WOOD 225. (3-0-0) Prerequisite: Three credits of first-year English. Equivalency: WOOD 225</td>
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<tr>
<td>NRES 225-201</td>
<td>201</td>
<td>Communications Strategies</td>
<td>Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry, Planning, and Forest Management. Credit will be granted for only one of NRES 225 or WOOD 225. (3-0-0) Prerequisite: Three credits of first-year English. Equivalency: WOOD 225</td>
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</table>
NRSC_V 225-002 NRSC_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 and presentation skills. Credit will be granted for only one of NRSC 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 Thu Tue 12:30 p.m. - 2:00 p.m.

NRSC_V 225-003 NRSC_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 and presentation skills. Credit will be granted for only one of NRSC 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 Thu Tue 3:30 p.m. - 5:30 p.m.

NRSC_V 221-101 NRSC_V 231 201 Introduction to Biometrics W1

Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit and independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/bachelor-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-3-0) Corequisite: One of MATH 100, MATH 180, MATH 181, MATH 190. Equivalency: FRST 231

In Person Learning Arranged Arranged

NRSC_V 221-001 NRSC_V 241 201 Introduction to Biometrics 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 Tue 3:30 p.m. - 5:30 p.m.

NRSC_V 241-101 NRSC_V 241 101 Introduction to Geomatics for Natural Resource Management W1

In Person Learning

NRSC_V 241-102 NRSC_V 241 102 Introduction to Geomatics for Natural Resource Management W1

In Person Learning Fri 3:30 p.m. - 5:30 p.m.

NRSC_V 241-201 NRSC_V 241 201 Introduction to Geomatics for Natural Resource Management W2

In Person Learning Wed 4:00 p.m. - 6:00 p.m.

NRSC_V 241-202 NRSC_V 241 202 Introduction to Geomatics for Natural Resource Management W2

In Person Learning Thu 4:00 p.m. - 6:00 p.m.

NRSC_V 241-201 NRSC_V 341 201 Intermediate Geomatics for Natural Resource Management W2

Applications of remote sensing, image analysis, and spatial analysis and geoprocessing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Prerequisite: NRSC 201. Second-year standing. Equivalency: NRES 290, CON 340, Pre-corequisite: NRSC 241. Third-year standing.

In Person LearningTue 6:00 p.m. - 8:00 p.m.

NRSC_V 241-202 NRSC_V 341 201 Intermediate Geomatics for Natural Resource Management W2

Applications of remote sensing, image analysis, and spatial analysis and geoprocessing for natural resource management. Priority enrolment to students in the Faculty of Forestry. Prerequisite: NRSC 201. Second-year standing. Equivalency: NRES 290, CON 340.

In Person Learning Fri 6:00 p.m. - 8:00 p.m.

NRSC_V 443-001 NRSC_V 443 201 Remote Sensing for Ecosystem Management W2

In Person Learning

NRSC_V 500-001 NRSC_V 500 001 Neuroscience I W1

Comprehensive multidisciplinary course with lectures, seminars, and laboratory demonstrations encompassing molecular, cellular, systems, and behavioral 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 500-002 NRSC_V 500 001 Neuroscience II W2

Continuation of NRSC 500 with emphasis on the integrative functions of the brain, behavior, and selected neural disorders. Permission of Neuroscience Chair is required. Normally to be taken in conjunction with NRSC 550. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged Arranged

NRSC_V 530-B_101 NRSC_V 510 A A_101 Topics in Neuroscience W1

In Person Learning Fri 12:30 p.m. - 2:00 p.m.

NRSC_V 530-B_101 NRSC_V 510 B B_101 Topics in Neuroscience W1

In Person Learning Fri 12:30 p.m. - 2:00 p.m.

NRSC_V 530-C_101 NRSC_V 510 C C_101 Topics in Neuroscience W1

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 555-101 NRSC_V 555 101 Molecular and Developmental Neuroscience W1

Introduction to concepts and applications of molecular/cell biology and genetics 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. - 11:30 a.m.
### In Person Learning

**Neuroscience, Ethics, and Society**

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<th>Format</th>
<th>Description</th>
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<tr>
<td>NSCI_V 552-101</td>
<td>Sensory Motor Systems</td>
<td>W2</td>
<td>Basic systems-level mechanisms underlyng sensory transduction, perception, and movement. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/No Credit grading.</td>
</tr>
<tr>
<td>NSCI_V 553-101</td>
<td>Cognition and Emotion</td>
<td>W2</td>
<td>Systems-level mechanisms underlying cognitive and affective behaviors in health and disease. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/No Credit grading.</td>
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**Laboratory Techniques for the Neurosciences**

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<th>Title</th>
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<tr>
<td>NSCI_V W2-001</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
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<tr>
<td>NSCI_V W2-002</td>
<td>Doctoral Dissertation</td>
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### Cooperative Work Placement I

**The Learning Brain**

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<th>Course Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td>NSCI_V 140-001</td>
<td>The Learning Brain</td>
<td>W1</td>
<td>Applications and implications of neuroscience for society and the individual, with a focus on neuroplasticity and neurodevelopment.</td>
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</tbody>
</table>

**Fundamentals of Cellular and Molecular Neuroscience**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 200-001</td>
<td>Fundamentals of Cellular and Molecular Neuroscience</td>
<td>W1</td>
<td>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/No Credit grading.</td>
</tr>
</tbody>
</table>

### Advanced Neuroanatomy

**Mechanisms of Nervous System Dysfunction and Recovery**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 201-001</td>
<td>Fundamentals of Behavioral and Cognitive Neuroscience</td>
<td>W2</td>
<td>Emphasis on the relationship between behaviour or cognition and nervous system function. This course is not eligible for Credit/No Credit grading.</td>
</tr>
</tbody>
</table>

**Laboratory Techniques for the Neurosciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 200-001</td>
<td>Laboratory Techniques for the Neurosciences</td>
<td>W1</td>
<td>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/No Credit grading.</td>
</tr>
</tbody>
</table>

**Foundations of Computational Neuroscience**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 200-101</td>
<td>Foundations of Computational Neuroscience</td>
<td>W2</td>
<td>Detailed coverage of computational neuroscience: neural modelling, single neuron mathematics, models of Hebbian learning, models of learning, clustering and classification.</td>
</tr>
</tbody>
</table>

**Systems-level mechanisms underlying cognitive and affective behaviors in health and disease. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/No Credit grading. | In Person Learning | Tue | 11:00 a.m. - 2:00 p.m. |

**Laboratory Techniques for the Neurosciences**

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 200-101</td>
<td>Laboratory Techniques for the Neurosciences</td>
<td>W1</td>
<td>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/No Credit grading.</td>
</tr>
</tbody>
</table>

**Mechanisms of Nervous System Dysfunction and Recovery**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 200-001</td>
<td>Mechanisms of Nervous System Dysfunction and Recovery</td>
<td>W1</td>
<td>Physiological mechanisms of neurological and psychiatric disorders and recovery from these disorders. This course is not eligible for Credit/No Credit grading.</td>
</tr>
</tbody>
</table>

**Neuroscience, Ethics, and Society**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 300-001</td>
<td>Neuroscience, Ethics, and Society</td>
<td>W2</td>
<td>Ethical issues associated with neuroscience, and the impact of neuroscience on society. This course is not eligible for Credit/No Credit grading.</td>
</tr>
</tbody>
</table>

**Cooperative Work Placement I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 398-510</td>
<td>Cooperative Work Placement I</td>
<td>W1</td>
<td>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/No Credit grading.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI_V 398-610</td>
<td>Cooperative Work Placement I</td>
<td>W2</td>
<td>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/No Credit grading.</td>
</tr>
</tbody>
</table>
**Stress and Strategies to Promote Well Being**

101
11:00 a.m. - 12:30 p.m.

In Person Learning

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 399.

**Neuroscience Capstone**

100
11:00 a.m. - 2:00 p.m.

Online Learning

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. Prerequisite: Restricted to students in the Neuroscience specialization.

**Directed Studies in Neuroscience**

448
A A_101

In Person Learning

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 36 credits, permission of the supervisor, and permission of the director of the Neuroscience specialization.

**Advanced Topics in Cellular and Molecular Neuroscience**

400

9:30 a.m. - 11:00 a.m.

In Person Learning

Selected topics in Cellular and Molecular Neuroscience. May be taken more than once for credit with permission of the program. Prerequisites: Third-year standing in a Neuroscience specialization.

**Cooperative Work Placement III**

399

9:30 a.m. - 11:00 a.m.

In Person Learning

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.

**Directed Studies in Neuroscience**

448
A A_101

In Person Learning

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 36 credits, permission of the supervisor, and permission of the director of the Neuroscience specialization.

**Cooperative Work Placement IV**

499

In Person Learning

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.

**Stress and Strategies to Promote Well Being**

106

9:30 a.m. - 11:00 a.m.

In Person Learning

Introduction to foundational knowledge related to stress, 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.

**Stress and Strategies to Promote Well Being**

107

2:00 p.m. - 3:30 p.m.

In Person Learning

Introduction to foundational knowledge related to stress, 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.

**Cooperative Work Placement IV**

499

9:30 a.m. - 11:00 a.m.

In Person Learning

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 Sessions 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 499.

**Directed Studies in Neuroscience**

448
D D_001

In Person Learning

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 36 credits, permission of the supervisor, and permission of the director of the Neuroscience specialization.

**Cooperative Work Placement III**

399

9:30 a.m. - 11:00 a.m.

In Person Learning

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 3 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.

**Directed Studies in Neuroscience**

448
A A_101

In Person Learning

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 36 credits, permission of the supervisor, and permission of the director of the Neuroscience specialization.

**Cooperative Work Placement III**

399

9:30 a.m. - 11:00 a.m.

In Person Learning

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 3 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.

**Directed Studies in Neuroscience**

448
A A_101

In Person Learning

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 36 credits, permission of the supervisor, and permission of the director of the Neuroscience specialization.

**Directed Studies in Neuroscience**

448
D D_001

In Person Learning

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 36 credits, permission of the supervisor, and permission of the director of the Neuroscience specialization.

**Cooperative Work Placement IV**

499

9:30 a.m. - 11:00 a.m.

In Person Learning

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.
Stress and Strategies to Promote Well Being

W2

Online Learning

Mon Wed

001

270

Mon Wed

270

201

4:30 p.m. - 6:00 p.m.

In Person Learning

Wed Fri

9:30 a.m. - 11:00 a.m.

Stress and Strategies to Promote Well Being

W2

Online Learning

Mon Wed

001

270

Mon Wed

270

201

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In Person Learning

Wed Fri

9:30 a.m. - 11:00 a.m.

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Mon Wed

270

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In Person Learning

Wed Fri

9:30 a.m. - 11:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Timeslots</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS_V 300-002</td>
<td>Theoretical Perspectives in Nursing: People Living with Mental Health Challenges and Their Families</td>
<td>2.00</td>
<td>W2</td>
<td>Theory informing a life course perspective on nursing practice with people 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 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 310-001</td>
<td>Basic Principles of Pharmacology for Nursing Practice</td>
<td>0.01</td>
<td>W1</td>
<td>Basic principles of pharmacology and the basic structure and function of each body system will be explored so demonstrate how drug interactions occur within systems. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>NURS_V 321-001</td>
<td>Foundational Skills and Competencies for Clinical Practice I</td>
<td>0.01</td>
<td>W1</td>
<td>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 321, NURS 322, NURS 360.</td>
</tr>
<tr>
<td>NURS_V 321-002</td>
<td>Foundational Skills and Competencies for Clinical Practice II</td>
<td>0.02</td>
<td>W2</td>
<td>Clinical practice through a variety of modalities and learning activities in the laboratory, clinical and community settings. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 352, NURS 360. Corequisite: NURS 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 330-001</td>
<td>Theoretical Perspectives in Nursing: Adults/Older Adults and their Families</td>
<td>0.01</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>NURS_V 346-001</td>
<td>Critical Inquiry and Leadership Synthesis</td>
<td>0.02</td>
<td>W2</td>
<td>Analysis and application of theories, concepts, evidence and competencies guiding professional nursing practice with children. 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: NURS 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 346-002</td>
<td>Theoretical Perspectives in Nursing: Childbearing Individuals and their Families</td>
<td>0.01</td>
<td>W1</td>
<td>The significance of critical inquiry and research in nursing and healthcare, and the fundamental concepts and processes pertaining to scientific inquiry, evidence-based practice, and research utilization in nursing. Students who take NURS 300 earn credit for NURS 303, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360. 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: NURS 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 352-001</td>
<td>Critical Inquiry and Research in Health Care Practice</td>
<td>0.02</td>
<td>W2</td>
<td>The significance of critical inquiry and research in nursing and healthcare, and the fundamental concepts and processes pertaining to scientific inquiry, evidence-based practice, and research utilization in nursing. Students who take NURS 300 earn credit for NURS 303, NURS 310, NURS 321, NURS 330, NURS 352, NURS 360. 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: NURS 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 352-002</td>
<td>Leadership, Policy, and Information</td>
<td>0.01</td>
<td>W1</td>
<td>Relational theoretical underpinnings of nursing practice and healthcare ethics are critically examined. 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.</td>
</tr>
<tr>
<td>NURS_V 352-001</td>
<td>Promoting the Health of Indigenous People</td>
<td>0.02</td>
<td>W2</td>
<td>Foundations to contribute to supporting and promoting 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.</td>
</tr>
<tr>
<td>NURS_V 352-002</td>
<td>Promoting the Health of Indigenous People</td>
<td>0.02</td>
<td>W2</td>
<td>Foundations to contribute to supporting and promoting 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.</td>
</tr>
<tr>
<td>NURS_V 354-001</td>
<td>Theoretical Perspectives in Nursing: Complexities in Geriatric Care</td>
<td>0.01</td>
<td>W1</td>
<td>Nursing practice to integrate and consolidate professional nursing knowledge, skills, and competencies in care of adults/older adults with established 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 330, NURS 352, NURS 360. Corequisite: NURS 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 360-001</td>
<td>Nursing Practice with Adults/Older Adults and their Families</td>
<td>0.01</td>
<td>W1</td>
<td>Clinical practice to integrate and consolidate professional nursing knowledge, skills, and competencies in care of adults/older adults with established 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 330, NURS 352, NURS 360. Corequisite: NURS 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 360-001</td>
<td>Nursing Practice with Primary Health Care Contexts</td>
<td>0.01</td>
<td>W1</td>
<td>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 330, NURS 352, NURS 360. Corequisite: NURS 361 and one of NURS 323, NURS 401.</td>
</tr>
<tr>
<td>NURS_V 360-001</td>
<td>Nursing Practice with People Living with Mental Health Challenges and Their Families</td>
<td>0.01</td>
<td>W1</td>
<td>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 330, NURS 352, NURS 360. Corequisite: NURS 361 and one of NURS 323, NURS 401.</td>
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</tbody>
</table>
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 301, NURS 310, NURS 311, NURS 321, NURS 322, NURS 352, NURS 360. Corequisite: NURS 323 and one of NURS 323, NURS 401.

In Person Learning  Wed Thu Fri  8:00 a.m. - 8:30 a.m.

W2  Nursing Practice with Childbearing Individuals and Families

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 311, NURS 322, NURS 323, NURS 330, NURS 352, NURS 360. Corequisite: NURS 323 and one of NURS 323, NURS 401.

In Person Learning  Wed Thu Fri  9:30 a.m. - 10:00 a.m.

W2  Nursing Practice with Childbearing Individuals and Families

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 311, NURS 322, NURS 323, NURS 330, NURS 352, NURS 360. Corequisite: NURS 323 and one of NURS 323, NURS 401.

In Person Learning  Wed Thu Fri  9:30 a.m. - 10:00 a.m.

W2  Nursing Practice with Infants, Children, Youth and their Families: Practicum

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 344, NURS 345, NURS 346, NURS 347 or (b) all of NURS 363, NURS 364, NURS 365, NURS 366.

In Person Learning  Arranged  Arranged

W1  Foundations of Skills and Competencies for Clinical Practice IV

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 330, NURS 360. Corequisite: Either (a) all of NURS 344, NURS 345, NURS 346, NURS 347 or (b) all of NURS 363, NURS 364, NURS 365, NURS 366.

In Person Learning  Arranged  Arranged

W2  Consolidated Practice Experience

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 345, NURS 401.

In Person Learning  Mon  9:00 a.m. - 12:00 p.m.

W2  Theoretical Perspectives in Nursing: Special Topics in Complex and Urgent Health Challenges across Settings/Populations

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 302, NURS 310, NURS 311, NURS 313, NURS 314, NURS 315, NURS 316, NURS 322, NURS 323, NURS 330, NURS 331, NURS 344, NURS 346, NURS 347, NURS 351, NURS 352, NURS 353, NURS 354, NURS 355, NURS 356, NURS 360. Corequisite: All of NURS 344, NURS 401.

In Person Learning  Fri  9:00 a.m. - 12:00 p.m.

W2  Ethics and Politics of Nursing

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Arranged  Arranged

W2  Research and Evidence-Based Practice

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue  9:00 a.m. - 12:00 p.m.

W2  Research and Evidence-Based Practice

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Thu  9:00 a.m. - 12:00 p.m.

W1  Health Promotion in Practice

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon  1:00 p.m. - 6:00 p.m.

W1  Health Promotion in Practice

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon  1:00 p.m. - 6:00 p.m.

W2  Pharmacology and Therapeutics in Primary Care

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Wed  1:00 p.m. - 6:00 p.m.

W2  Pharmacology and Therapeutics in Primary Care

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Wed  1:00 p.m. - 6:00 p.m.

W1  Pathophysiological Processes for Nurse Practitioners

This course is not eligible for Credit/D/Fail grading.

Online Learning  Arranged  Arranged

W1  Pathophysiological Processes for Nurse Practitioners

This course is not eligible for Credit/D/Fail grading.

Online Learning  Arranged  Arranged

W2  Clinical Procedures in Primary Care Settings

This course is not eligible for Credit/D/Fail grading.

In Person Learning  Thu  1:00 p.m. - 6:00 p.m.
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<td>Doctoral/Dissertation</td>
<td>003</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>ORPA_V 548-A_001</td>
<td>Advanced Orthopaedics I</td>
<td>548</td>
<td>Students proceed to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada.</td>
<td>In Person Learning</td>
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<tr>
<td>ORPA_V 548-B_001</td>
<td>Advanced Orthopaedics II</td>
<td>548</td>
<td>Students proceed to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada.</td>
<td>In Person Learning</td>
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<tr>
<td>ORPA_V 549-001</td>
<td>Orthopaedic Surgery</td>
<td>549</td>
<td>Students proceed to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada.</td>
<td>In Person Learning</td>
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<tr>
<td>ORPA_V 549-002</td>
<td>Orthopaedic Seminars</td>
<td>549</td>
<td>Students proceed to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada.</td>
<td>In Person Learning</td>
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<tr>
<td>ORPA_V 549-003</td>
<td>Paediatric Orthopaedics</td>
<td>549</td>
<td>Students proceed to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada.</td>
<td>In Person Learning</td>
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<tr>
<td>ORPA_V 549-004</td>
<td>Orthopaedic Seminars</td>
<td>549</td>
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<td>In Person Learning</td>
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<tr>
<td>ORPA_V 549-005</td>
<td>Seminar in Orthopaedics</td>
<td>549</td>
<td>Students proceed to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</table>

*Note: All courses are arranged and are not eligible for Credit/D/Fail grading.*
OSOT_V 511-001 OSOT_V Introduction to Human Occupation W1
Explores human occupation, conceptualized as all activities people do based on need, obligations, 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. [1-4-0]
In Person Learning Arranged Arranged

OSOT_V 511-001 OSOT_V Fundamentals of Occupational Therapy: Theory, Conceptual Models and the Practice Process W1
Fundamentals of occupational therapy, including values and beliefs, conceptual models, client-centered principles, and practice frameworks are introduced. Professional reasoning is demonstrated through resolution of case-based client occupational issues. Critical appraisal of theory fosters nuanced understanding 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 Health,essa & Occupation W1-2
Concepts and models of occupation, health, and illness are introduced and operationalized. Narratives from persons with lived experience and interaction 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. [1-6-1]
In Person Learning Arranged Arranged

OSOT_V 515-001 OSOT_V Occupation in Practice I: Foundations of Occupational Therapy Assessment and Intervention W1
Labs, simulations and tutorial 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 Professional Development of the Occupational Therapist I W1-2
Concepts of professionalization, reflection, 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 graded. [2-0-2]
In Person Learning Arranged Arranged

OSOT_V 525-001 OSOT_V 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. Biopsychosocial, psychosocial, neurorehabilitation and developmental frames of reference will form professional reasoning as students work through the occupational therapy practice process. This course is not eligible for Credit/D/Fail grading. [2-0-2]
In Person Learning Arranged Arranged

OSOT_V 527-001 OSOT_V Becoming as 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 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 15 weeks of supervised fieldwork experience in affiliated agencies is required. This course is not eligible for Credit/D/Fail grading. [3-2-2]
In Person Learning Arranged Arranged

OSOT_V 540-001 OSOT_V Developing Evidence for Occupational Therapy Practice W2
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. [3-2-2]
In Person Learning Arranged Arranged

OSOT_V 549-001 OSOT_V Professional Development of the Occupational Therapist II W1-2
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. [2-2-2]
In Person Learning Arranged Arranged

OSOT_V 550-001 OSOT_V Societal and Environmental Influences on Occupation and Occupational Therapy Practice W2
To address inequalities 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 presentations. This course is not eligible for Credit/D/Fail grading. [3-2-2]
In Person Learning Arranged Arranged

PATH_V 300-001 PATH_V Background to Medical Laboratory Science W1-1
Hematology, histotechnology and selected areas of clinical chemistry and relevant fundamentals of human physiology. In Person Learning Mon 1:00 p.m. - 3:30 p.m.

PATH_V 301-001 PATH_V 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 301-012 PATH_V 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. - 3:00 p.m.
<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
<th>Days</th>
<th>Times</th>
<th>Location</th>
<th>Credit</th>
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<tr>
<td>PATH_V 303-001</td>
<td>PATH_V 303-001</td>
<td>Cyto/Mol G &amp; Tissue Culture &amp; Cytology</td>
<td>W1-2</td>
<td>Fundamentals of human genetics and molecular biology as they relate to studying and detecting disease in a population; tissue culture techniques to assess cell viability; cytology principles in disease detection.</td>
<td>In Person Learning</td>
<td>Fri 9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PATH_V 303-01</td>
<td>PATH_V 303-02</td>
<td>Cyto/Mol G &amp; Tissue Culture &amp; Cytology</td>
<td>W1-2</td>
<td>Fundamentals of human genetics and molecular biology as they relate to studying and detecting disease in a population; tissue culture techniques to assess cell viability; cytology principles in disease detection.</td>
<td>In Person Learning</td>
<td>Wed 1:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>PATH_V 303-102</td>
<td>PATH_V 303-103</td>
<td>Cyto/Mol G &amp; Tissue Culture &amp; Cytology</td>
<td>W1-2</td>
<td>Fundamentals of human genetics and molecular biology as they relate to studying and detecting disease in a population; tissue culture techniques to assess cell viability; cytology principles in disease detection.</td>
<td>In Person Learning</td>
<td>Thu 1:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>PATH_V 304-001</td>
<td>PATH_V 304-002</td>
<td>Normal Human Histology</td>
<td>W1-2</td>
<td>Human anatomy at the microscopic level; identification of normal human tissues by light microscopy, how specific tissue anatomy relates to function.</td>
<td>In Person Learning</td>
<td>Fri 2:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>PATH_V 305-001</td>
<td>PATH_V 305-002</td>
<td>Modern Microscopy</td>
<td>W2</td>
<td>Theoretical and practical application of widely used microscopy techniques.</td>
<td>In Person Learning</td>
<td>Tue 2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>PATH_V 306-001</td>
<td>PATH_V 306-002</td>
<td>Safety for Medical Laboratory Scientists</td>
<td>W1</td>
<td>Workplace hazards of chemical, biological and ergonomic origin.</td>
<td>In Person Learning</td>
<td>Fri 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PATH_V 327-01</td>
<td>PATH_V 327-02</td>
<td>Bacteriology, Mycology, Virology, and Parasitology</td>
<td>W1-2</td>
<td>Biological attributes, clinical features, pathogenesis and pathology, epidemiology, immunological reactions, laboratory diagnosis, principles of antimicrobial therapy and preventative measures of human microbial pathogens.</td>
<td>In Person Learning</td>
<td>Mon 10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PATH_V 375-001</td>
<td>PATH_V 375-002</td>
<td>Introduction to Human Pathology</td>
<td>W1</td>
<td>Causes, natural history and pathophysiology of common disease processes. Prerequisite: 6 credits each first year BIOL and CHEM</td>
<td>In Person Learning</td>
<td>Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>PATH_V 402-01</td>
<td>PATH_V 402-02</td>
<td>Medical Laboratory Science: Hematology</td>
<td>W2</td>
<td>A theoretical and practical examination of those modern concepts of hematology which relate to the practice of medical laboratory science.</td>
<td>In Person Learning</td>
<td>Tue Thu 12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>PATH_V 404-01</td>
<td>PATH_V 404-02</td>
<td>Diagnostic Histochemistry</td>
<td>W1-2</td>
<td>Theory and practice of common histochemical techniques; experimental design, data analysis and presentation.</td>
<td>In Person Learning</td>
<td>Thu 12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>PATH_V 405-01</td>
<td>PATH_V 405-02</td>
<td>Seminars in Current Topics</td>
<td>W2</td>
<td>Oral and written presentation and critical appraisal of scientific papers.</td>
<td>In Person Learning</td>
<td>Wed 2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>PATH_V 406-01</td>
<td>PATH_V 406-02</td>
<td>Clinical Chemistry</td>
<td>W2</td>
<td>Biochemical tests in clinical medicine and the analytical chemistry techniques used to produce the results; pathophysiology of common clinical conditions.</td>
<td>In Person Learning</td>
<td>Mon Thu 9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PATH_V 407-01</td>
<td>PATH_V 407-02</td>
<td>Medical Laboratory Toxicology: Analytical, Clinical</td>
<td>W1-2</td>
<td>An introduction to the analytical and pathophysiological aspects of clinical and forensic toxicology.</td>
<td>In Person Learning</td>
<td>Wed 9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PATH_V 408-01</td>
<td>PATH_V 408-02</td>
<td>Research and Career Skills</td>
<td>W1</td>
<td>Students must be willing to engage in both self-directed and small-group learning.</td>
<td>In Person Learning</td>
<td>Mon Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>PATH_V 415-01</td>
<td>PATH_V 415-02</td>
<td>Immunopathology</td>
<td>W2</td>
<td>Inflammatory and adaptive immunity and how these host defense mechanisms are involved in both health and illness.</td>
<td>In Person Learning</td>
<td>Mon Thu 2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>PATH_V 417-A_02</td>
<td>PATH_V 417-A_01</td>
<td>Human Bacterial Infections</td>
<td>W2</td>
<td>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.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>PATH_V 437-01</td>
<td>PATH_V 437-02</td>
<td>Viral Infections in Humans</td>
<td>W1</td>
<td>Interactions between viruses and humans; pathogenesis; prompt virological diagnosis; rationale for antiviral chemotherapy and prophylaxis.</td>
<td>In Person Learning</td>
<td>Fri 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>PATH_V 438-E_05</td>
<td>PATH_V 438-E_06</td>
<td>Medical Laboratory Science: Specialized Studies</td>
<td>W1-2</td>
<td>Investigation of a specific topic in Medical Laboratory Science.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>PATH_V 451-001</td>
<td>PATH_V 451-002</td>
<td>Clerkship in Laboratory Medicine and Infection Prevention and Control</td>
<td>W1</td>
<td>May involve attendance at an approved institution and/or a project assigned by the instructor(s); instructor permission required.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>PATH_V 453-001</td>
<td>PATH_V 453-002</td>
<td>Clerkship in Laboratory Medicine and Infection Prevention and Control</td>
<td>W2</td>
<td>May involve attendance at an approved institution and/or a project assigned by the instructor(s); instructor permission required.</td>
<td>In Person Learning</td>
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<tr>
<td>PATH_V 477-001</td>
<td>PATH_V 477-002</td>
<td>Basic Epidemiology for Infection Control</td>
<td>W1</td>
<td>Epidemiology, study, design and analysis, and outbreak investigation as it applies to institutional infection control.</td>
<td>Online Learning</td>
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<tr>
<td>PATH_V 501-001</td>
<td>PATH_V 501-002</td>
<td>Foundations of Human Histopathology</td>
<td>W1</td>
<td>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/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu 2:30 p.m. - 5:30 p.m.</td>
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<tr>
<td>PATH_V 522-001</td>
<td>Current Topics in Pathology Research</td>
<td>W2</td>
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<td>W2 001 Current Topics in Pathology Research. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 531-001</td>
<td>Molecular and Cell Biology of Cancer</td>
<td>W2</td>
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<td>W2 001 Molecular and Cell Biology of Cancer. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 535-001</td>
<td>Seminar</td>
<td>W1-2</td>
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<td>W1-2 Seminar Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 535-002</td>
<td>Seminar</td>
<td>W1</td>
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<td>W1 002 Seminar Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 535-003</td>
<td>Seminar</td>
<td>W1</td>
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<td>W1 003 Seminar Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 547-001</td>
<td>Techniques in Molecular Biology and Experimental Pathology</td>
<td>W2</td>
<td></td>
<td>W2 001 Techniques in Molecular Biology and Experimental Pathology. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 548-B-001</td>
<td>Directed Studies</td>
<td>W1</td>
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<td>W1 001 Directed Studies Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 548-C-001</td>
<td>Directed Studies</td>
<td>W1</td>
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<td>W1 002 Directed Studies Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 548-K-001</td>
<td>Directed Studies</td>
<td>W1</td>
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<td>W1 003 Directed Studies Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 548-L-001</td>
<td>Directed Studies</td>
<td>W1</td>
<td></td>
<td>W1 004 Directed Studies Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 549-A-001</td>
<td>M.Sc. Thesis</td>
<td>W1-2</td>
<td></td>
<td>W1-2 M.Sc. Thesis Registration Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 549-A-002</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td></td>
<td>W1 002 M.Sc. Thesis Registration Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 549-A-003</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td></td>
<td>W1 003 M.Sc. Thesis Registration Attendance required of all M.Sc. candidates in the Department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 570-001</td>
<td>Cardiovascular Pathophysiology</td>
<td>W2</td>
<td></td>
<td>W2 001 Cardiovascular Pathophysiology Pathogenesis, abnormal physiology, and therapeutic approaches in heart disease including cardiac arrhythmias, heart failure, myocardial infarction, hypertension, atherosclerosis. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 535-001</td>
<td>Seminar</td>
<td>W1-2</td>
<td></td>
<td>W1-2 Seminar Attendance required of all Ph.D. candidates in the department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 535-002</td>
<td>Seminar</td>
<td>W1</td>
<td></td>
<td>W1 002 Seminar Attendance required of all Ph.D. candidates in the department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 535-003</td>
<td>Seminar</td>
<td>W1</td>
<td></td>
<td>W1 003 Seminar Attendance required of all Ph.D. candidates in the department. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PATH_V 649-001</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td></td>
<td>W1-2 Doctoral Dissertation Conduct of research on some aspect of clinical or basic microbiology. For medical residents.</td>
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<tr>
<td>PATH_V 649-002</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td></td>
<td>W1 002 Doctoral Dissertation Conduct of research on some aspect of clinical or basic microbiology. For medical residents.</td>
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<tr>
<td>PATH_V 649-003</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td></td>
<td>W1 003 Doctoral Dissertation Conduct of research on some aspect of clinical or basic microbiology. For medical residents.</td>
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<tr>
<td>PATH_V 720-001</td>
<td>Microbiological Diagnosis</td>
<td>W1-2</td>
<td></td>
<td>W1-2 Microbiological Diagnosis Conduct of research on some aspect of clinical or basic microbiology. For medical residents.</td>
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<td>PCTH_V 722-001</td>
<td>Microbial Infections</td>
<td>6</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>W1-2</td>
<td>Restricted to students in Pharmacology. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PCTH_V 723-001</td>
<td>Histopathology of Infectious Diseases</td>
<td>6</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>W1-2</td>
<td>Restricted to students in Pharmacology. This course is not eligible for Credit/D/Fail grading.</td>
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</table>
| PCTH_V 201-001 | Drugs and Society                                                     | 6      | In Person Learning           | Tue Thu        | 12:30 p.m. - 2:00 p.m. | Fundamental concepts of drug-receptor interactions in the context of autonomic, endocrine, and psychiatric pharmacology. 
| PCTH_V 309-001 | Introduction to Pharmacology                                          | 6      | In Person Learning           | Mon Wed Fri    | 10:00 a.m. - 11:00 a.m. | A series of experimental demonstrations and individual laboratory experiments illustrating the basic principles of pharmacology. 
| PCTH_V 303-001 | Pharmacology Laboratory                                              | 0      | In Person Learning           |                | 2:00 p.m. - 5:30 p.m. | Pharmacological modulation of physiological systems in health and disease. 
| PCTH_V 325-001 | Rational Basis of Drug Therapy                                        | 3      | In Person Learning           |                | 9:30 a.m. - 11:00 a.m. | 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. 
| PCTH_V 398-001 | Co-operative Work Placement I                                        | 3      | In Person Learning           |                |          | 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. 
| PCTH_V 399-001 | Co-operative Work Placement II                                       | 3      | In Person Learning           |                |          | 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. 
| PCTH_V 399-002 | Co-operative Work Placement II                                       | 3      | In Person Learning           |                |          | 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. 
| PCTH_V 400-001 | Systematic Pharmacology                                              | 4      | In Person Learning           |                | 12:00 p.m. - 1:00 p.m. | A series of demonstrated, group, and individual laboratory experiments designed to illustrate the principles of endogenous and exogenous chemicals in the body. Use of drugs as tools in experimental research. 
| PCTH_V 402-001 | Systematic Pharmacology Laboratory                                   | 4      | In Person Learning           |                | 12:00 p.m. - 1:00 p.m. | The techniques, including methods of statistical analysis, used to detect and measure the action of endogenous or exogenous chemicals, using chemical assays and bioassays as appropriate. 
| PCTH_V 404-001 | Drug Assay and Pharmacometrics                                       | 4      | In Person Learning           |                | 12:00 p.m. - 1:00 p.m. | A series of experimental demonstrations and individual laboratory experiments illustrating the basic principles of pharmacology. 
| PCTH_V 448-B-001 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 448-E-002 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 448-A-001 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 449-C-002 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 449-A-001 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 449-C-002 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 449-B-001 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 449-B-002 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 449-E-002 | Directed Studies in Pharmacology                                     | 4      | In Person Learning           |                | 1:00 p.m. - 3:00 p.m. | 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. 
| PCTH_V 514-001 | Seminar in Pharmacology or Therapeutics                              | 1      | In Person Learning           |                | 12:00 p.m. - 1:30 p.m. | 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 year and would be expected to attend all seminars. This course is not eligible for Credit/D/Fail grading. 
| PCTH_V 514-002 | Seminar in Pharmacology or Therapeutics                              | 1      | In Person Learning           |                | 12:00 p.m. - 1:30 p.m. | 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 year and would be expected to attend all seminars. This course is not eligible for Credit/D/Fail grading. 

**Students and Schedule:** 
- **Mon Wed Fri:** 10:00 a.m. - 11:00 a.m. 
- **Tue Thu:** 12:30 p.m. - 2:00 p.m. 
- **Fri:** 9:30 a.m. - 11:00 a.m. 
- **12:00 p.m. - 2:00 p.m.**
As well as reading, writing, listening, and speaking.

Basic vocabulary and the fundamentals of modern Persian grammar, structure, and pronunciation,

In special cases, with the approval of the department head, advanced courses may be arranged.
The credit value for this course will be determined in consultation with the student prior to the registration.

This course is not eligible for Credit/D/Fail grading.

In special cases, with the approval of the department head, advanced courses may be arranged.
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In special cases, with the approval of the department head, advanced courses may be arranged.
The credit value for this course will be determined in consultation with the student prior to the registration.

This course is not eligible for Credit/D/Fail grading.

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.
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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PERS 300-011</td>
<td>011</td>
<td>Intermediate-Low Persian I</td>
</tr>
<tr>
<td>PERS 301-011</td>
<td>012</td>
<td>Intermediate-High Persian I</td>
</tr>
<tr>
<td>PERS 302-011</td>
<td>011</td>
<td>Intermediate-High Persian II</td>
</tr>
<tr>
<td>PERS 310-021</td>
<td>010</td>
<td>Persian Media</td>
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<tr>
<td>PHAR 201-001</td>
<td>001</td>
<td>Clinical Epidemiology &amp; Pharmaceutical Outcomes I</td>
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<tr>
<td>PHAR 202-001</td>
<td>001</td>
<td>Pharmacological Research</td>
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<tr>
<td>PHAR 203-001</td>
<td>001</td>
<td>Pharmaceutical Topics and Communication Seminar I</td>
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<tr>
<td>PHAR 204-001</td>
<td>001</td>
<td>Pharmaceutical Topics and Communication Seminar II</td>
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<tr>
<td>PHAR 204-002</td>
<td>002</td>
<td>Pharmaceutical Research</td>
</tr>
<tr>
<td>PHAR 205-001</td>
<td>001</td>
<td>Clinical Epidemiology &amp; Pharmaceutical Outcomes I</td>
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<tr>
<td>PHAR 206-001</td>
<td>001</td>
<td>Pharmacological Research</td>
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<tr>
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<td>PHAR 310-021</td>
<td>010</td>
<td>Persian Media</td>
</tr>
<tr>
<td>PHAR 400-011</td>
<td>011</td>
<td>Persian Short Story for Native and Heritage Speakers</td>
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<tr>
<td>PHAR 401-011</td>
<td>011</td>
<td>Contemporary Iranian Cinema for Advanced Speakers of Persian</td>
</tr>
<tr>
<td>PHAR 404-011</td>
<td>011</td>
<td>Persian Media</td>
</tr>
</tbody>
</table>

**Course Descriptions**

- **PERS 300-011**: Intermediate-Low Persian I
  - Reading and writing of standard Persian; lexical and syntactic differences between written and spoken Persian. Restricted to Persian heritage speakers with trans-cultural knowledge but no reading/writing skills.
  - Multi-access Learning
  - Fri: 11:00 a.m. - 12:00 p.m.

- **PERS 301-011**: Intermediate-Low Persian II
  - Continuation of PERS 300; recommended pre-requisite: PERS 301.
  - Multi-access Learning
  - Fri: 3:30 p.m. - 4:30 p.m.

- **PERS 302-011**: Intermediate-High Persian I
  - Gradual reading, writing, exposure to newspapers, radio/TV, as well as online news and social media. Recommended pre-requisites: PERS 300, 301, or credits of PERS at the 300 level, or permission of instructor.
  - In Person Learning
  - Arranged

- **PERS 310-021**: Persian Media
  - Reading, understanding, and participating in contemporary registers of Persian Language as used in newspapers, radio/TV, as well as online news and social media. Recommended pre-requisites: PERS 300, 301, or credits of PERS at the 300 level, or permission of instructor.
  - In Person Learning
  - Arranged

- **PHAR 201-001**: Clinical Epidemiology & Pharmaceutical Outcomes I
  - 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: 9:30 a.m. - 11:00 a.m.

- **PHAR 202-001**: Pharmaceutical Research
  - 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 203-001**: Pharmaceutical Topics and Communication Seminar I
  - 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
  - Thu: 2:30 p.m. - 3:30 p.m.

- **PHAR 204-001**: Pharmaceutical Topics and Communication Seminar II
  - Current topics in the Pharmaceutical and Biotechnology Industry and Intermediate level skills for a short conference. This course is not eligible for Credit/D/Fail grading.
  - In Person Learning
  - Thu: 12:30 p.m. - 1:30 p.m.

- **PHAR 205-001**: Pharmacokinetics and Pharmacogenomics
  - 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
  - Wed: 10:00 a.m. - 11:00 a.m.
<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE NAME</th>
<th>SEMESTER</th>
<th>DAYS</th>
<th>LECTURE TIME</th>
<th>LAB TIME</th>
<th>DESCRIPTION</th>
<th>PREREQUISITE(S)</th>
<th>GRADE POLICY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHAR 303-001</td>
<td>Clinical Epidemiology &amp; Pharmaceutical Outcomes II</td>
<td>W2</td>
<td>Mon</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td></td>
<td>1. Introduction to epidemiology. 2. Epidemiologic study designs, for example, the prospective cohort study. 3. Principles of probability. 4. Population-based research, evidence evaluation and evidence-based practice.</td>
<td>All of CHEM 233, PHAR 202.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 304-001</td>
<td>Analytical Sciences Theory and Laboratory</td>
<td>W2</td>
<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. 2. Application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problems with clinical relevance. 3. Application and problem solving in the pharmaceutical sciences. Development of self-directed learning skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 307-001</td>
<td>Analytical Sciences Theory and Laboratory</td>
<td>W2</td>
<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td></td>
<td>1. Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research as well as the Pharmaceutical and Biotechnology industries. This course is not eligible for Credit/D/Fail grading.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 308-001</td>
<td>Systematic Pharmacology</td>
<td>W1</td>
<td>Tue</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
<td>1. Population-level study designs and their critical appraisal skills in evidence evaluation, with a special emphasis on evidence-based pharmacy practice. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 309-001</td>
<td>Pharmaceutical Cases I</td>
<td>W1</td>
<td>Tue</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td></td>
<td>1. General principles of pharmacodynamics and pharmacoekinetcs: drug action on nervous, cardiovascular, GI and endocrine systems; beneficial and detrimental effects of drug action.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 310-001</td>
<td>Pharmaceutical Cases I</td>
<td>W1</td>
<td>Tue</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 311-001</td>
<td>Pharmaceutical Topics and Communication Seminar I</td>
<td>W2</td>
<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td></td>
<td>1. Introduction to epidemiology. 2. Epidemiologic study designs, for example, the prospective cohort study. 3. Principles of probability. 4. Population-based research, evidence evaluation and evidence-based practice.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 312-001</td>
<td>Precision Medicine</td>
<td>W1</td>
<td>Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 313-001</td>
<td>Pharmacoeconomics</td>
<td>W1</td>
<td>Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 314-001</td>
<td>Statistical Methods for Pharmaceutical Outcomes Research</td>
<td>W1</td>
<td>Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 315-001</td>
<td>Financing and Therapeutics in the Canadian Health Care System</td>
<td>W2</td>
<td>Mon</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
<td>1. Introduction to epidemiology. 2. Epidemiologic study designs, for example, the prospective cohort study. 3. Principles of probability. 4. Population-based research, evidence evaluation and evidence-based practice.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
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<tr>
<td>PHAR 316-001</td>
<td>Biologics</td>
<td>W2</td>
<td>Mon</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td></td>
<td>1. Introduction to epidemiology. 2. Epidemiologic study designs, for example, the prospective cohort study. 3. Principles of probability. 4. Population-based research, evidence evaluation and evidence-based practice.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
</tr>
<tr>
<td>PHAR 317-001</td>
<td>Advanced Anesthesics and Analgesics</td>
<td>W1</td>
<td>Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
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<tr>
<td>PHAR 318-001</td>
<td>Drug Structures in Medicinal Chemistry</td>
<td>W2</td>
<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
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<tr>
<td>PHAR 319-001</td>
<td>Drug Structures in Medicinal Chemistry</td>
<td>W2</td>
<td>Mon</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td></td>
<td>1. Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical skills.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
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<tr>
<td>PHAR 320-001</td>
<td>Clinical Chemistry</td>
<td>W1</td>
<td>Mon</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
<td>1. Introduction to epidemiology. 2. Epidemiologic study designs, for example, the prospective cohort study. 3. Principles of probability. 4. Population-based research, evidence evaluation and evidence-based practice.</td>
<td>All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.</td>
<td>Credit/D/Fail</td>
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</tbody>
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Adverse Drug Reactions

Functional Foods

Toxicology

Advanced Pharmaceutics

Pharmaceutical Cases II

Advanced Pharmacokinetics

Research Project

Honours Thesis

The molecular and physiological basis of common adverse drug reactions (ADRs). ADRs is 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.

Functional food concepts related to efficacy and safety, examples of bioactive component-disease relationships, nutraceutical 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 PHAR 432. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing or permission of the instructor.

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 384.

Polypharmacological, pharmacokinetic/pharmacodynamic modeling, pharmacological 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.

Provides advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problems resolve 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.

Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problems resolve 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. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.

Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problems resolve 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.

Advanced application and problem solving in the pharmaceutical sciences. Integration of knowledge and skills from multiple courses to problems resolve 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.

Higher level skills and concepts for planning, delivering and critiquing a scientific seminar using extended topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.

Senior level skills and concepts for planning, delivering and critiquing a scientific seminar using extended topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.

Senior level skills and concepts for planning, delivering and critiquing a scientific seminar using extended topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.

Senior level skills and concepts for planning, delivering and critiquing a scientific seminar using extended topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 370.

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.

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.

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

Advanced Pharmacotherapeutics

Directed Studies in Pharmaceutical Sciences

Directed Studies in Pharmaceutical Sciences

In Person Learning

In Person Learning

In Person Learning

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<th>Time</th>
<th>Mode</th>
<th>Notes</th>
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<tr>
<td>548-001</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>549-001</td>
<td>Directed Studies</td>
<td>A_A_001</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>549-002</td>
<td>Directed Studies</td>
<td>A_A_002</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>549-003</td>
<td>Master's Thesis</td>
<td>A_A_003</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>549-004</td>
<td>Master's Thesis</td>
<td>B_B_001</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>549-005</td>
<td>Master's Thesis</td>
<td>B_B_002</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>549-006</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>549-007</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>549-008</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>549-009</td>
<td>Master's Thesis</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>550-001</td>
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<td>550-002</td>
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<td>550-003</td>
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<td>550-004</td>
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<td>C_C_001</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>550-005</td>
<td>Directed Studies</td>
<td>C_C_002</td>
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<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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</table>

This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics.
Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the existence of God, and the relationship between mind and body. Credit will be granted for only one of PHIL 100 or PHIL 101.

Basic problems and methods of Philosophy. Topics such as the nature and scope of human knowledge, the existence of God, and the relationship between mind and body. Credit will be granted for only one of PHIL 100 or PHIL 101.

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Basic problems and methods of Philosophy. Topics such as the nature and scope of human knowledge, the existence of God, and the relationship between mind and body. Credit will be granted for only one of PHIL 100 or PHIL 101.
| 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-L01 | PHIL_V 120-L01 | 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-L02 | PHIL_V 120-L02 | 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-L06A | PHIL_V 120-L06A | 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-L08C | PHIL_V 120-L08C | 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-L01 | PHIL_V 125-L01 | 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 | Arranged |
| PHIL_V 125-L02 | PHIL_V 125-L02 | 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-L03 | PHIL_V 125-L03 | 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-L01 | PHIL_V 211-L01 | Greek Philosophy: Socrates and Plato | W1 | The Pre-Socratics, Socrates, Sophists, Plato. Recommended as preparation for PHIL 220. Credit will only be granted for one of PHIL 211, CLST 211, or AMK 215. Equivalency: CLST 211, AMK 215. | In Person Learning | Mon-Wed-Fri | 1:00 p.m. - 2:00 p.m. |
| PHIL_V 220-L01 | PHIL_V 220-L01 | 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 | 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 | 12:30 p.m. - 2:00 p.m. |
| PHIL_V 220-L02 | PHIL_V 220-L02 | 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 | 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-L03 | PHIL_V 220-L03 | 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 | Symbolic Logic | Mon-Wed-Fri | Arranged |
| PHIL_V 220-L04 | PHIL_V 220-L04 | 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-L05 | PHIL_V 220-L05 | 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-L06 | PHIL_V 220-L06 | 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 | Symbolic Logic | Mon-Wed-Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 220-L07 | PHIL_V 220-L07 | 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-L08 | PHIL_V 220-L08 | 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-L09 | PHIL_V 220-L09 | 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 | Symbolic Logic | Mon-Wed-Fri | 11:00 a.m. - 12:00 p.m. |
| PHIL_V 220-L10A | PHIL_V 220-L10A | 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 | Symbolic Logic | In Person Learning | Arranged | Arranged |
Introduction to Ethics
10:00 a.m. - 11:00 a.m.

Contemporary Moral Issues
2:00 p.m. - 3:00 p.m.

Minds and Machines
10:00 a.m. - 11:00 a.m.

Introduction to Epistemology
10:00 a.m. - 11:00 a.m.

Introduction to Ethics
10:00 a.m. - 11:00 a.m.

Introduction to Ethics
11:00 a.m. - 12:00 p.m.

Science and Society in the Contemporary World
10:00 a.m. - 11:00 a.m.
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 310 or INST 260. Equivalency: INST 260.

In Person Learning  
Fri  
10:00 a.m. - 11:00 a.m.

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 310 or INST 260. Equivalency: INST 260.

In Person Learning  
Fri  
10:00 a.m. - 11:00 a.m.

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 310 or INST 260. Equivalency: INST 260.

In Person Learning  
Fri  
10:00 a.m. - 11:00 a.m.

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 310 or INST 260. Equivalency: INST 260.

In Person Learning  
Fri  
10:00 a.m. - 11:00 a.m.

A study of Plato’s dialogues and its influence on subsequent philosophy. PHIL/CLST 211 or AMNE 310 and PHIL/CLST 221 or AMNE 326 are recommended.

In Person Learning  
Mon Wed Fri  
2:00 p.m. - 2:30 p.m.

A study of Aristotle’s writings and his influence on subsequent philosophy. Recommended prerequisite: PHIL 230.

In Person Learning  
Tue Thu  
11:00 a.m. - 12:30 p.m.

Survey of Western European thought from Augustine to the 18th century. Possible topics and authors include: Augustine, Abelard, the influence of logic, the rediscovery of Aristotle, Aquinas, Scotus, Duns. Credit will be granted for only one of PHIL 313 and RELIG 328. Equivalency: RELIG 328.

In Person Learning  
Mon Wed Fri  
10:00 a.m. - 12:30 p.m.

Survey of Western European thought from Augustine to the 18th century. Possible topics and authors include: Augustine, Abelard, the influence of logic, the rediscovery of Aristotle, Aquinas, Scotus, Duns. Credit will be granted for only one of PHIL 313 and RELIG 328. Equivalency: RELIG 328.

In Person Learning  
Mon Wed Fri  
11:00 a.m. - 12:00 p.m.

Survey of 17th-century philosophy from Descartes to Leibniz, including the writings of Hobbes, Spinoza, and Leibniz. The influence of science and religion on philosophy.

In Person Learning  
Tue Thu  
11:00 a.m. - 12:30 p.m.

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.

Survey of 18th and 20th-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  
10:00 a.m. - 11:30 a.m.

Survey of 18th and 20th-century philosophy. May include Hegel, Schopenhauer, Nietzsche, Mill, and political thought. Social and political currents in 19th-century philosophical thought.

In Person Learning  
Mon Wed Fri  
10:00 a.m. - 11:00 a.m.

Survey of 19th and 20th-century philosophy. May include Hegel, Schopenhauer, Nietzsche, Mill, and political thought. Social and political currents in 19th-century philosophical thought.

In Person Learning  
Mon Wed Fri  
1:00 p.m. - 2:00 p.m.

Continuation of PHIL 220. A system of deduction for predicate logic is selected for further study. Completeness of this system and other metacomplete results are proved. Other topics include computability, recursive function theory, incompleteness and decidability. Recommended prerequisite: one of PHIL 220, PHIL 232. PHIL 221 is recommended.

In Person Learning  
Mon Wed Fri  
10:00 a.m. - 11:00 a.m.

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 Fri  
3:30 p.m. - 5:00 p.m.

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 Fri  
3:30 p.m. - 5:00 p.m.

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.

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. - 3:00 p.m.

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  
Arranged  
Arranged  

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, effects of interest, advertising, vehicle following and self-regulation.

In Person Learning  
Mon Wed Fri  
5:00 p.m. - 6:30 p.m.

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, effects of interest, advertising, vehicle following and self-regulation.

Online Learning  
Tue Thu  
5:00 p.m. - 6:30 p.m.
<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Format</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PHIL_V 331-03A</td>
<td>Business and Professional Ethics</td>
<td>W1</td>
<td>3</td>
<td>Course in business and professional practice, general moral theory, the law, and policy formation. Corporate social and environmental responsibility, employer rights, preferential hiring and affirmative action programs, etc.</td>
</tr>
<tr>
<td>PHIL_V 331-03C</td>
<td>Business and Professional Ethics</td>
<td>W2</td>
<td>3</td>
<td>Course in business and professional practice, general moral theory, the law, and policy formation. Corporate social and environmental responsibility, employer rights, preferential hiring and affirmative action programs, etc.</td>
</tr>
<tr>
<td>PHIL_V 332-001</td>
<td>Environmental Ethics</td>
<td>W1</td>
<td>3</td>
<td>Course in environmental ethics. 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.</td>
</tr>
<tr>
<td>PHIL_V 332-001</td>
<td>Environmental Ethics</td>
<td>W2</td>
<td>3</td>
<td>Course in environmental ethics. 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.</td>
</tr>
<tr>
<td>PHIL_V 333-001</td>
<td>Bio-Medical Ethics</td>
<td>W1</td>
<td>3</td>
<td>Course in bio-medical ethics. Topics include: medical ethics, especially in medicine but also in biology, psychology, and social work. Topics include: abortion, death and euthanasia, genetic engineering,</td>
</tr>
<tr>
<td>PHIL_V 333-001</td>
<td>Bio-Medical Ethics</td>
<td>W2</td>
<td>3</td>
<td>Course in bio-medical ethics. Topics include: medical ethics, especially in medicine but also in biology, psychology, and social work. Topics include: abortion, death and euthanasia, genetic engineering,</td>
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<tr>
<td>PHIL_V 333-00A</td>
<td>Bio-Medical Ethics</td>
<td>W1</td>
<td>3</td>
<td>Course in bio-medical ethics. Topics include: medical ethics, especially in medicine but also in biology, psychology, and social work. Topics include: abortion, death and euthanasia, genetic engineering,</td>
</tr>
<tr>
<td>PHIL_V 333-00B</td>
<td>Bio-Medical Ethics</td>
<td>W1</td>
<td>3</td>
<td>Course in bio-medical ethics. Topics include: medical ethics, especially in medicine but also in biology, psychology, and social work. Topics include: abortion, death and euthanasia, genetic engineering,</td>
</tr>
<tr>
<td>PHIL_V 333-00C</td>
<td>Bio-Medical Ethics</td>
<td>W2</td>
<td>3</td>
<td>Course in bio-medical ethics. Topics include: medical ethics, especially in medicine but also in biology, psychology, and social work. Topics include: abortion, death and euthanasia, genetic engineering,</td>
</tr>
<tr>
<td>PHIL_V 333-00D</td>
<td>Bio-Medical Ethics</td>
<td>W2</td>
<td>3</td>
<td>Course in bio-medical ethics. Topics include: medical ethics, especially in medicine but also in biology, psychology, and social work. Topics include: abortion, death and euthanasia, genetic engineering,</td>
</tr>
<tr>
<td>PHIL_V 334-001</td>
<td>Sex, Gender and Philosophy</td>
<td>W1</td>
<td>3</td>
<td>Course in sex, gender, and philosophy. Topics may include ethics, epistemology, science, social relations, law, and personhood.</td>
</tr>
<tr>
<td>PHIL_V 334-002</td>
<td>Sex, Gender and Philosophy</td>
<td>W2</td>
<td>3</td>
<td>Course in sex, gender, and philosophy. Topics may include ethics, epistemology, science, social relations, law, and personhood.</td>
</tr>
<tr>
<td>PHIL_V 335-001</td>
<td>Power and Oppression</td>
<td>W1</td>
<td>3</td>
<td>Course in power and oppression. Topics include: law, constitution and sovereignty, law and morality, natural laws and legal systems; obligations, responsibility, and punishment.</td>
</tr>
<tr>
<td>PHIL_V 335-002</td>
<td>Power and Oppression</td>
<td>W2</td>
<td>3</td>
<td>Course in power and oppression. Topics include: law, constitution and sovereignty, law and morality, natural laws and legal systems; obligations, responsibility, and punishment.</td>
</tr>
<tr>
<td>PHIL_V 337-001</td>
<td>Ethics for the Sciences</td>
<td>W1</td>
<td>3</td>
<td>Course in ethics for the sciences. Topics include: ethical issues in the non-medical sciences, including topics such as:</td>
</tr>
<tr>
<td>PHIL_V 337-002</td>
<td>Ethics for the Sciences</td>
<td>W2</td>
<td>3</td>
<td>Course in ethics for the sciences. Topics include: ethical issues in the non-medical sciences, including topics such as:</td>
</tr>
<tr>
<td>PHIL_V 338-001</td>
<td>Philosophy of Law</td>
<td>W1</td>
<td>3</td>
<td>Course in philosophy of law. Topics include: concepts of law, constitution and sovereignty, law and morality, natural laws and legal systems; obligations, responsibility, and punishment.</td>
</tr>
<tr>
<td>PHIL_V 338-002</td>
<td>Philosophy of Law</td>
<td>W2</td>
<td>3</td>
<td>Course in philosophy of law. Topics include: concepts of law, constitution and sovereignty, law and morality, natural laws and legal systems; obligations, responsibility, and punishment.</td>
</tr>
<tr>
<td>PHIL_V 339-001</td>
<td>Philosophy of Art</td>
<td>W2</td>
<td>3</td>
<td>Course in philosophy of art. Topics include: art and perception, art and reality, imagination, expression, censorship, and the role of art in human life.</td>
</tr>
<tr>
<td>PHIL_V 340-001</td>
<td>Introduction to Metaphysics</td>
<td>W1</td>
<td>3</td>
<td>Course in introduction to metaphysics. Topics include: metaphysics such as the nature of physical reality, perceived identity, the mind-body problem, free will, causation and action theory.</td>
</tr>
<tr>
<td>PHIL_V 340-002</td>
<td>Introduction to Metaphysics</td>
<td>W2</td>
<td>3</td>
<td>Course in introduction to metaphysics. Topics include: metaphysics such as the nature of physical reality, perceived identity, the mind-body problem, free will, causation and action theory.</td>
</tr>
<tr>
<td>PHIL_V 347-001</td>
<td>Philosophy of Religion</td>
<td>W1</td>
<td>3</td>
<td>Course in philosophy of religion. Topics include: a critical and analytical examination of arguments for and against the existence of God, and other related topics.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
<td>Days and Times</td>
<td>Location</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>PHIL V 371-001</td>
<td>Philosophy of Religion</td>
<td>W2</td>
<td>Wed 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 371-003</td>
<td>Philosophy of Religion</td>
<td>W2</td>
<td>Wed 10:00 a.m. - 11:00 a.m.</td>
<td>Hybrid Learning</td>
</tr>
<tr>
<td>PHIL V 371-004</td>
<td>Philosophy of Religion</td>
<td>W1</td>
<td>Wed 10:00 a.m. - 11:00 a.m.</td>
<td>Hybrid Learning</td>
</tr>
<tr>
<td>PHIL V 349-001</td>
<td>Introduction to Continental Philosophy</td>
<td>W2</td>
<td>Tue 2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 351-001</td>
<td>Philosophical Perspectives on Cognitive Systems Research</td>
<td>W1</td>
<td>Tue 12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 351-002</td>
<td>Philosophical Perspectives on Cognitive Systems Research</td>
<td>W2</td>
<td>Tue 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 360-001</td>
<td>Introduction to History and Philosophy of Science</td>
<td>W2</td>
<td>Tue 3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 362-A_001</td>
<td>History and Philosophy of Economics from Aristotle to Adam Smith</td>
<td>W1</td>
<td>Tue 3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 363-A_001</td>
<td>History and Philosophy of Economics from Ricardo to Keynes</td>
<td>W2</td>
<td>Tue 3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 388-001</td>
<td>Existentialism</td>
<td>W1</td>
<td>Wed 2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 388-002</td>
<td>Existentialism</td>
<td>W2</td>
<td>Wed 2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 388-003</td>
<td>Classical South Asian Philosophy</td>
<td>W2</td>
<td>Wed 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 390-A_001</td>
<td>Honors Tutorial</td>
<td>W1</td>
<td>Wed 2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 390-A_002</td>
<td>Honors Tutorial</td>
<td>W2</td>
<td>Wed 2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL V 400-001</td>
<td>Morals, Politics and the Individual</td>
<td>W2</td>
<td>Wed 9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

For some classes, specific prerequisites or restrictions apply. Please consult the course catalog for detailed information.
Topics in Social and Political Philosophy
Central concepts and problems in political life and thought including obligations, citizenship, representation, justice, equality, civil rights and liberty, disobedience. Prerequisite: 9 credits of PHIL200 at the 200-level or above.

In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

In Person Learning
Arranged
Arranged

Topics in Critical Theory
Classic or contemporary works in ethical theory. Prerequisite: PHIL 230. 9 credits of Phil, at the 200-level or above.

In Person Learning
Mon Wed Fri
11:00 a.m. - 12:30 p.m.

In Person Learning
Arranged
Arranged

Topics in Epistemology
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.

In Person Learning
Arranged
Arranged

Philosophy of Perception
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.

In Person Learning
Arranged
Arranged

Topics in Continental Philosophy
A study of European philosophers from amongst: Husserl, Heidegger, Habermas, Foucault, Derrida, Lukas, Levinas, and others.

In Person Learning
Mon Wed Fri
12:30 p.m. - 1:30 p.m.

In Person Learning
Arranged
Arranged

Philosophy of Mind
The nature of the mental and physical; the relation between minds and bodies; the character of psychological explanations. 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
Tue Thu
12:30 p.m. - 1:30 p.m.

In Person Learning
Arranged
Arranged

Philosophy of Mind
The nature of the mental and physical; the relation between minds and bodies; the character of psychological explanations. 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
Tue Thu
10:00 a.m. - 11:00 a.m.

In Person Learning
Arranged
Arranged

Philosophy in the Philosophy of Cognitive Science
Philosophical topics in the cognitive sciences, such as empiricism vs. rationalism, consciousness, mental representation, cognitive architecture, language & thought, and situated cognition. Prerequisites: 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.

In Person Learning
Arranged
Arranged

Philosophy in the Philosophy of Cognitive Science
Philosophical topics in the cognitive sciences, such as empiricism vs. rationalism, consciousness, mental representation, cognitive architecture, language & thought, and situated cognition. Prerequisites: 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. - 4:30 p.m.

In Person Learning
Arranged
Arranged

Philosophy of Social Science
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 laws and norms, scientific explanation. Prerequisites: 9 credits in the 300-level or above from philosophy, anthropology, geography, economics, history, political science, psychology or sociology.

In Person Learning
Wed
2:00 p.m. - 3:30 p.m.

In Person Learning
Arranged
Arranged

Philosophy of Biology
Methodological, historical, philosophical and social-scientific questions about biology. Prerequisite: Fourth-year standing in any degree program or 9 credits of philosophy.

In Person Learning
Thu
11:00 a.m. - 1:00 p.m.

In Person Learning
Arranged
Arranged

Philosophy of Science
Topics such as probability and induction, foundations of measurement, theory construction, recommended pre-requisite: PHIL 200.

In Person Learning
Wed
2:00 p.m. - 3:00 p.m.

In Person Learning
Arranged
Arranged

Comparative Conceptions of the Self
Ways in which the ‘self’ has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Kant (On(admin), Nietzsche, and Chuang(tzu). Credit will be granted for only one of PHIL 470 or ASIA 470. Equivalency: ASIA 470.

In Person Learning
Thu
3:30 p.m. - 5:00 p.m.

In Person Learning
Arranged
Arranged

Comparative Conceptions of the Self
Ways in which the ‘self’ has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Kant (On(admin), Nietzsche, and Chuang(tzu). Credit will be granted for only one of PHIL 470 or ASIA 470. Equivalency: ASIA 470.

In Person Learning
Thu
9:30 a.m. - 11:00 a.m.

In Person Learning
Arranged
Arranged

Directed Reading
Same as PHIL 486-9.

In Person Learning
Arranged
Arranged

Directed Reading
Same as PHIL 486-9.

In Person Learning
Arranged
Arranged

Honours Tutorial
Honours Tutorial

In Person Learning
Tue
2:00 p.m. - 5:00 p.m.

In Person Learning
Arranged
Arranged

Honours Tutorial
Honours Tutorial

In Person Learning
Tue
2:00 p.m. - 5:00 p.m.

In Person Learning
Arranged
Arranged

Seminar for Majors in Philosophy
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.

In Person Learning
Arranged
Arranged

Seminar for Majors in Philosophy
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.

In Person Learning
Arranged
Arranged

Ancient Philosophy
This course is not eligible for Credit/D/Fail grading.

In Person Learning
Tue
2:00 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Type</th>
<th>Title</th>
<th>Days</th>
<th>Times</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM_V 581-A_001</td>
<td>581</td>
<td>A_001</td>
<td>Philosophy of Mind</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Mon 2:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 551-A_001</td>
<td>551</td>
<td>A_001</td>
<td>Philosophy of Mind</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Thu 2:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 551-A_002</td>
<td>551</td>
<td>A_002</td>
<td>Philosophy of Mind</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Thu 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 560-A_001</td>
<td>560</td>
<td>A_001</td>
<td>Philosophy of Science</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 561-A_001</td>
<td>561</td>
<td>A_001</td>
<td>Topics in Science and Technology Studies</td>
<td>W1</td>
<td>Advanced seminar on a theme or topic of interest to both STS and Philosophy. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 581-A_001</td>
<td>581</td>
<td>A_001</td>
<td>Problems</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 699-001</td>
<td>699</td>
<td>001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Multi-access Learning, Arranged</td>
</tr>
<tr>
<td>PHRM_V 699-002</td>
<td>699</td>
<td>002</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Multi-access Learning, Arranged</td>
</tr>
<tr>
<td>PHRM_V 530-001</td>
<td>530</td>
<td>A_001</td>
<td>Moral Philosophy</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Mon 2:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 531-A_001</td>
<td>531</td>
<td>A_001</td>
<td>Political Philosophy</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Wed 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 532-A_001</td>
<td>532</td>
<td>A_001</td>
<td>Metaphysics</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Mon 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 531-A_002</td>
<td>531</td>
<td>A_002</td>
<td>Philosophy of Mind</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning, Thu 2:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 699-003</td>
<td>699</td>
<td>001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Multi-access Learning, Arranged</td>
</tr>
<tr>
<td>PHRM_V 699-002</td>
<td>699</td>
<td>002</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Multi-access Learning, Arranged</td>
</tr>
<tr>
<td>PHRM_V 100-001</td>
<td>100</td>
<td>001</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Mon 3:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 100-101</td>
<td>100</td>
<td>101</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 100-102</td>
<td>100</td>
<td>102</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 100-103</td>
<td>100</td>
<td>103</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 100-104</td>
<td>100</td>
<td>104</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 100-105</td>
<td>100</td>
<td>105</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 100-106</td>
<td>100</td>
<td>106</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 100-107</td>
<td>100</td>
<td>107</td>
<td>Foundations of Pharmacy</td>
<td>W1</td>
<td>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.</td>
<td>In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 111-001</td>
<td>111</td>
<td>001</td>
<td>Medication Management</td>
<td>W2</td>
<td>Medication and management activities focusing on an introduction to infectious diseases, musculoskeletal disorders, dermatology, eyes, ears, nose, and throat disorders, and pharmacology. This course is not eligible for Credit/D/Fail grading.</td>
<td>Prerequisite: PHRM 103, In Person Learning, Fri 1:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 111-101</td>
<td>111</td>
<td>101</td>
<td>Medication Management</td>
<td>W2</td>
<td>Medication and management activities focusing on an introduction to infectious diseases, musculoskeletal disorders, dermatology, eyes, ears, nose, and throat disorders, and pharmacology. This course is not eligible for Credit/D/Fail grading.</td>
<td>Prerequisite: PHRM 103, In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM_V 111-102</td>
<td>111</td>
<td>102</td>
<td>Medication Management</td>
<td>W2</td>
<td>Medication and management activities focusing on an introduction to infectious diseases, musculoskeletal disorders, dermatology, eyes, ears, nose, and throat disorders, and pharmacology. This course is not eligible for Credit/D/Fail grading.</td>
<td>Prerequisite: PHRM 103, In Person Learning, Tue Wed 2:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PHRM  V 111-001</td>
<td>PHRM  V 111-001</td>
<td>111</td>
<td>001</td>
<td>Medication Management I</td>
<td>W2</td>
<td>Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 100.</td>
</tr>
<tr>
<td>PHRM  V 111-004</td>
<td>PHRM  V 111-004</td>
<td>111</td>
<td>004</td>
<td>Medication Management I</td>
<td>W2</td>
<td>Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 100.</td>
</tr>
<tr>
<td>PHRM  V 111-005</td>
<td>PHRM  V 111-005</td>
<td>111</td>
<td>005</td>
<td>Medication Management I</td>
<td>W2</td>
<td>Modules and integration activities focusing on: an introduction to infectious diseases; musculoskeletal disorders; dermatology, ears, nose, and throat disorders; and hematology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 100.</td>
</tr>
<tr>
<td>PHRM  V 111-006</td>
<td>PHRM  V 111-006</td>
<td>111</td>
<td>006</td>
<td>Medication Management I</td>
<td>W2</td>
<td>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. Corequisite: PHRM 231.</td>
</tr>
<tr>
<td>PHRM  V 112-001</td>
<td>PHRM  V 112-001</td>
<td>112</td>
<td>001</td>
<td>Study Design and Interpretation I</td>
<td>W2</td>
<td>Knowledge and skills related to the role and applications of technology in health care. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 161-001</td>
<td>PHRM  V 161-001</td>
<td>161</td>
<td>001</td>
<td>Seminar: Pharmacists in Practice I</td>
<td>W1</td>
<td>Current and future roles for pharmacists and controversies in pharmacy practice. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM  V 161-001</td>
<td>PHRM  V 161-001</td>
<td>161</td>
<td>001</td>
<td>Technology in Healthcare</td>
<td>W2</td>
<td>Knowledge and skills related to the role and applications of technology in health care. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 211-001</td>
<td>PHRM  V 211-001</td>
<td>211</td>
<td>001</td>
<td>Medication Management II</td>
<td>W1</td>
<td>Modules and integration activities focusing on respirology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 211-001</td>
<td>PHRM  V 211-001</td>
<td>211</td>
<td>001</td>
<td>Medication Management II</td>
<td>W1</td>
<td>Modules and integration activities focusing on respirology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 211-002</td>
<td>PHRM  V 211-002</td>
<td>211</td>
<td>002</td>
<td>Medication Management II</td>
<td>W1</td>
<td>Modules and integration activities focusing on respirology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 211-003</td>
<td>PHRM  V 211-003</td>
<td>211</td>
<td>003</td>
<td>Medication Management II</td>
<td>W1</td>
<td>Modules and integration activities focusing on respirology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 211-004</td>
<td>PHRM  V 211-004</td>
<td>211</td>
<td>004</td>
<td>Medication Management II</td>
<td>W1</td>
<td>Modules and integration activities focusing on respirology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 211-005</td>
<td>PHRM  V 211-005</td>
<td>211</td>
<td>005</td>
<td>Medication Management II</td>
<td>W1</td>
<td>Modules and integration activities focusing on respirology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 211-006</td>
<td>PHRM  V 211-006</td>
<td>211</td>
<td>006</td>
<td>Medication Management II</td>
<td>W1</td>
<td>Modules and integration activities focusing on respirology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 212-001</td>
<td>PHRM  V 212-001</td>
<td>212</td>
<td>001</td>
<td>Medication Management III</td>
<td>W2</td>
<td>Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 212-001</td>
<td>PHRM  V 212-001</td>
<td>212</td>
<td>001</td>
<td>Medication Management III</td>
<td>W2</td>
<td>Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
</tr>
<tr>
<td>PHRM  V 212-002</td>
<td>PHRM  V 212-002</td>
<td>212</td>
<td>002</td>
<td>Medication Management III</td>
<td>W2</td>
<td>Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
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<td>PHRM  V 212-003</td>
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<td>212</td>
<td>003</td>
<td>Medication Management III</td>
<td>W2</td>
<td>Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
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<td>PHRM  V 212-004</td>
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<td>004</td>
<td>Medication Management III</td>
<td>W2</td>
<td>Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
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<td>PHRM  V 212-005</td>
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<td>W2</td>
<td>Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
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<td>PHRM  V 212-006</td>
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<td>212</td>
<td>006</td>
<td>Medication Management III</td>
<td>W2</td>
<td>Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
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<tr>
<td>PHRM  V 221-001</td>
<td>PHRM  V 221-001</td>
<td>221</td>
<td>001</td>
<td>Nutrition for Pharmacists</td>
<td>W2</td>
<td>Principles of screening and diagnostic tests, clinical prediction rules, and selected clinical applications of nutrition in pharmacy practice. Corequisite: PHRM 171.</td>
</tr>
<tr>
<td>PHRM  V 231-001</td>
<td>PHRM  V 231-001</td>
<td>231</td>
<td>001</td>
<td>Study Design and Interpretation II</td>
<td>W1</td>
<td>Knowledge and skills related to the role and applications of technology in health care. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.</td>
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<tr>
<td>Course Code</td>
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<td>Title</td>
<td>Description</td>
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<tr>
<td>PHRM 241-001</td>
<td>241</td>
<td>Directed Studies in Clinical Pharmacy</td>
<td>Preparation for experiential learning in the hospital setting. Focuses on enhancing familiarity with the core environment and developing skills suited for students to apply in patient care during institutional experiential rotations. This course is not eligible for Credit/D/Fail grading. Pre-requisite: PHRM 171.</td>
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<tr>
<td>PHRM 251-001</td>
<td>251</td>
<td>Institutional Practice Skills</td>
<td>Training for authorization to administer injections. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PHRM 252-001</td>
<td>252</td>
<td>Clinical Skills: Administration of Injections</td>
<td>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. Pre-requisite: PHRM 171.</td>
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<tr>
<td>PHRM 261-001</td>
<td>261</td>
<td>Indigenous Health and Cultural Safety</td>
<td>Service learning activities with external community partner sites and members. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Pre-requisite: PHRM 171.</td>
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<tr>
<td>PHRM 270-001</td>
<td>270</td>
<td>Community Service Learning II</td>
<td>Service learning activities with external community partner sites and members. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Pre-requisite: PHRM 171.</td>
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<td>PHRM 270-002</td>
<td>270</td>
<td>Community Service Learning II</td>
<td>Service learning activities with external community partner sites and members. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Pre-requisite: PHRM 171.</td>
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<tr>
<td>PHRM 300-C-001</td>
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<td>Special Topics</td>
<td>Community Service Learning II</td>
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<td>PHRM 300-D-001</td>
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<td>Special Topics</td>
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<td>Special Topics</td>
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<td>PHRM 300-H-001</td>
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<td>PHRM 311 Audit Temp Course</td>
<td>Community Service Learning II</td>
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<td>PHRM 302-B-001</td>
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<td>Directed Studies in Clinical Pharmacy</td>
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<td>PHRM 302-B-002</td>
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<td>PHRM 304-B-001</td>
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<td>Directed Studies in Pharmacy Education</td>
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<td>PHRM 304-B-002</td>
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In Person Learning

Medication Management V

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Medication Management V

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Medication Management IV

306 B

In Person Learning

Arranged

2:00 p.m. - 5:00 p.m.

Medication Management IV

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Medication Management IV

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Education

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Practice

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Practice

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Practice

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Practice

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Practice

306 B

In Person Learning

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2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Practice

306 B

In Person Learning

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306 B

In Person Learning

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306 B

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Directed Studies in Pharmacy Practice

306 B

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306 B

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Directed Studies in Pharmacy Practice

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.

Directed Studies in Pharmacy Practice

306 B

In Person Learning

Arranged

2:00 p.m. - 5:30 p.m.
Pharm-V 324-001 324 001 001 Primary Care Pharmacy Practice  1  W1  In Person Learning  Fri 9:00 a.m. - 12:00 p.m.

Pharm-V 325-001 325 001 001 Clinical Pharmacokinetics  1  W1  In Person Learning  Wed 9:00 a.m. - 12:00 p.m.

Pharm-V 326-001 326 001 001 Renal Pharmacotherapeutics  1  W1  In Person Learning  Thu 12:30 p.m. - 2:00 p.m.

Pharm-V 327-001 327 001 001 Toxicology and Precision Medicine  1  W1  In Person Learning  Wed 9:00 a.m. - 12:00 p.m.

Pharm-V 328-001 328 001 001 Pharmacology of Drugs of Misuse and Abuse  1  W1  In Person Learning  Wed 9:00 a.m. - 12:00 p.m.

Pharm-V 329-001 329 001 001 Leadership Experience Applied to Pharmacy (LEAP)  1-2  W1-2  In Person Learning  Wed 10:30 a.m. - 12:00 p.m.

Pharm-V 330-001 330 001 001 Pharmacy Practice in Acute and Critically Ill Patients  1  W2  In Person Learning  Thu 12:30 p.m. - 2:00 p.m.

Pharm-V 331-001 331 001 001 Pharmacy Practice in Oncology  1  W2  In Person Learning  Wed 12:30 p.m. - 2:00 p.m.

Pharm-V 332-001 332 001 001 Practical Applications of Pharmacoepidemiology & Health Economics  1  W2  In Person Learning  Wed 12:30 p.m. - 2:00 p.m.

Pharm-V 333-001 333 001 001 Pharmacotherapy in Otolaryngology  1  W2  In Person Learning  Wed 12:30 p.m. - 2:00 p.m.

Pharm-V 340-001 340 001 001 Pain Research and Therapy  1  W2  In Person Learning  Thu 12:30 p.m. - 2:00 p.m.

Pharm-V 341-001 341 001 001 Seminar: Pharmacists in Practice II  1  W2  In Person Learning  Tue 2:00 p.m. - 6:00 p.m.

Pharm-V 346-001 346 001 001 Diabetology  1  W2  In Person Learning  Wed 9:00 a.m. - 12:00 p.m.

Pharm-V 351-001 351 001 001 Practice Management and Leadership  1  W1  In Person Learning  Thu 2:00 p.m. - 5:00 p.m.

Pharm-V 441-001 441 001 001 Seminar: Advanced Topics in Pharmacy Practice  1  W1  In Person Learning  Arranged  Arranged

Pharm-V 441-002 441 002 001 Seminar: Advanced Topics in Pharmacy Practice  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 450-001 450 001 001 PharmD Seminar  1  W1  In Person Learning  Arranged  Arranged

Pharm-V 451-001 451 001 001 Critical Appraisal of Pharmacotherapy Literature  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 452-001 452 001 001 Patient Assessment Skills  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 453-PL1 453 001 001 Applied Pharmacokinetics and Pharmacogenomics  1  W1  In Person Learning  Arranged  Arranged

Pharm-V 453-PL2 453 001 001 Applied Pharmacokinetics and Pharmacogenomics  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 454-001 454 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 462-001 462 001 001 Pharmacotherapeutics 2  1-2  W2  In Person Learning  Arranged  Arranged

Pharm-V 462-002 462 002 001 Pharmacotherapeutics 2  1-2  W2  In Person Learning  Arranged  Arranged

Pharm-V 463-001 463 001 001 Pharmacotherapeutics 3  1  W1  In Person Learning  Arranged  Arranged

Pharm-V 464-001 464 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 465-001 465 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 466-001 466 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 467-001 467 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 468-001 468 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 469-001 469 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 470-001 470 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 471-001 471 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 472-001 472 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 473-001 473 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 474-001 474 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 475-001 475 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 476-001 476 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 477-001 477 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 478-001 478 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 479-001 479 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 480-001 480 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 481-001 481 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 482-001 482 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 483-001 483 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 484-001 484 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 485-001 485 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 486-001 486 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 487-001 487 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 488-001 488 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 489-001 489 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 490-001 490 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 491-001 491 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 492-001 492 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 493-001 493 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 494-001 494 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 495-001 495 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged

Pharm-V 496-001 496 001 001 Practice Management  1  W2  In Person Learning  Arranged  Arranged
In Person Learning

Selected Advanced Pharmacy Practice Experience

Pharmacotherapeutics 6

In Person Learning

Arranged

Inpatient and Health Authority-Based Advanced Pharmacy Practice Experience

Prerequisite: PHRM 371.

Applies to a variety of patient care settings, including inpatient and/or health authority-based settings.

Patient care will be provided in a wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Prerequisite: PHRM 371.

Wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Prerequisite: PHRM 371.

Wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Prerequisite: PHRM 371.

Wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Prerequisite: PHRM 371.

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Prerequisite: PHRM 371.

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Prerequisite: PHRM 371.

Wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Prerequisite: PHRM 371.

Wide range of therapeutic areas. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Prerequisite: PHRM 371.
Diverse options available in such domains as patient care (various settings), research, health policy, education, and others. The available placement options will vary from year to year depending on site/preceptor availability. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of outpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.

Builds on the foundation of patient care and management learning with knowledge about healthcare system improvement. Focuses on principles of quality measurement and quality improvement in health. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.
Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of outpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Advanced Pharmacy Practice Experience - Outpatient

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of outpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Advanced Pharmacy Practice Experience - Inpatient and Health Authority-Based

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of inpatient and/or health authority-based settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Advanced Pharmacy Practice Experience - Specialized Outpatient

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of specialized outpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.
Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of ambulatory or primary care settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient or inpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of ambulatory or primary care settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient or inpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient or inpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient or inpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in outpatient or inpatient settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Options available in such domains as patient care (various settings), research, health policy, education, and others. The available placement options will vary from year to year depending on site/practice educator availability. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Options available in such domains as patient care (various settings), research, health policy, education, and others. The available placement options will vary from year to year depending on site/practice educator availability. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM_V 521</td>
<td>Pathology for Physical Therapy I</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
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<tr>
<td>PHRM_V 522</td>
<td>Pathology for Physical Therapy II</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
</tr>
<tr>
<td>PHRM_V 524</td>
<td>Clinical Practice I</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
</tr>
<tr>
<td>PHRM_V 525</td>
<td>Clinical Decision Making I</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
</tr>
<tr>
<td>PHRM_V 526</td>
<td>Exercise and Movement I</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
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<tr>
<td>PHRM_V 527</td>
<td>Exercise and Movement II</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
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<tr>
<td>PHRM_V 528</td>
<td>Case-Based Integration</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
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<tr>
<td>PHRM_V 531</td>
<td>Pathology for Physical Therapy III</td>
<td>0.00</td>
<td>Assessment of skills in the clinical problem-solving process. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Successful completion of all other coursework.</td>
</tr>
</tbody>
</table>
This course is not eligible for Credit/D/Fail grading. 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.

Movement, 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.
<table>
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<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
<th>DAYS</th>
<th>TIMES</th>
<th>LOCATION</th>
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<tr>
<td>PHYS 100-TIC</td>
<td>Introductory Physics</td>
<td>Wed</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHYS 100-TID</td>
<td>Introductory Physics</td>
<td>Wed</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<td>PHYS 100-TIE</td>
<td>Introductory Physics</td>
<td>Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHYS 100-TIF</td>
<td>Introductory Physics</td>
<td>Wed</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHYS 100-TIG</td>
<td>Introductory Physics</td>
<td>Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

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 12. [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.

Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others. Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.

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.

Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others. Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.

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.

Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others. Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.

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.

Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others. Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.

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.

Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others. Mathematics 12 or Pre-calculus 12 is required; Physics 11 is required for first-year students, strongly recommended for others.

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 12. [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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Enriched Physics I (lecture)</td>
<td>3-0-2</td>
<td>Dynamics, angular momentum, oscillations and waves. Prerequisite: PHYS 12.</td>
</tr>
<tr>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Enriched Physics II</td>
<td>3-0-2</td>
<td>Dynamics, angular momentum, oscillations and waves. Prerequisite: PHYS 12.</td>
</tr>
<tr>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td></td>
<td>Kinematics, force, energy, momentum of rigid bodies and simple harmonic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>motion, wave phenomena, angular momentum. Prerequisite: PHYS 12.</td>
</tr>
<tr>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td></td>
<td>Classical mechanics including conservation laws, angular momentum of rigid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>bodies and simple harmonic motion, wave phenomena, angular momentum.</td>
</tr>
<tr>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td></td>
<td>Classical mechanics including conservation laws, angular momentum of rigid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>bodies and simple harmonic motion, wave phenomena, angular momentum.</td>
</tr>
<tr>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td></td>
<td>Classical mechanics including conservation laws, angular momentum of rigid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>bodies and simple harmonic motion, wave phenomena, angular momentum.</td>
</tr>
<tr>
<td>6:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</td>
<td></td>
<td>Classical mechanics including conservation laws, angular momentum of rigid</td>
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<td></td>
<td></td>
<td></td>
<td>bodies and simple harmonic motion, wave phenomena, angular momentum.</td>
</tr>
<tr>
<td>7:00 p.m. - 8:00 p.m.</td>
<td>In Person Learning</td>
<td></td>
<td>Classical mechanics including conservation laws, angular momentum of rigid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>bodies and simple harmonic motion, wave phenomena, angular momentum.</td>
</tr>
</tbody>
</table>

**Additional Notes:**
- Prerequisite: PHYS 12
- Corequisite: MATH 120, MATH 180, MATH 184.
In Person Learning Tue 11:00 a.m. - 12:00 p.m.

In Person Learning Tue 3:00 p.m. - 4:00 p.m.

In Person Learning Tue 5:00 p.m. - 6:00 p.m.

In Person Learning Wed 1:00 p.m. - 2:00 p.m.

In Person Learning Wed 3:00 p.m. - 4:00 p.m.

In Person Learning Thu 1:00 p.m. - 2:00 p.m.

In Person Learning Thu 3:00 p.m. - 4:00 p.m.

In Person Learning Thu 5:00 p.m. - 6:00 p.m.

In Person Learning Fri 1:00 p.m. - 2:00 p.m.

In Person Learning Fri 3:00 p.m. - 4:00 p.m.

In Person Learning Fri 5:00 p.m. - 6:00 p.m.
waves, including diffraction. [3-0-1] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Fluids, harmonic oscillator, travelling waves, standing waves, sound, and interference of light waves, including diffraction. [3-0-1] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Experimental Physics Lab I
Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 107, PHYS 119.

Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Experimental Physics Lab II
Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Experimental Physics Lab I
Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Introductory laboratory course, with emphasis on data collection, data analysis techniques, and scientific reasoning. [0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.
<table>
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<th>Day</th>
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<th>Type</th>
<th>Course Title</th>
<th>Time</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>Mon</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Energy and Waves (Lecture)</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>PHYS_V 131</td>
</tr>
<tr>
<td>Wed</td>
<td>T1H</td>
<td>In Person Learning</td>
<td>Energy and Waves (Lecture)</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>PHYS_V 131</td>
</tr>
<tr>
<td>Thu</td>
<td>T1H</td>
<td>In Person Learning</td>
<td>Energy and Waves (Lecture)</td>
<td>3:30 p.m. - 5:30 p.m.</td>
<td>PHYS_V 131</td>
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<tr>
<td>Fri</td>
<td>T1D</td>
<td>In Person Learning</td>
<td>Energy and Waves (Lecture)</td>
<td>9:30 a.m. - 11:30 a.m.</td>
<td>PHYS_V 131</td>
</tr>
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</table>

MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Fluids, harmonic oscillator, travelling waves, standing waves, sound, and interference of light waves, including diffraction. [3-0-1] 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 2:00 p.m. - 4:00 p.m.

Wed 8:00 a.m. - 10:00 a.m.

Thu 9:30 a.m. - 11:30 a.m.

Fri 9:00 a.m. - 11:00 a.m.

Mon 3:00 p.m. - 5:00 p.m.

Tue 9:00 a.m. - 11:00 a.m.

Wed 9:00 a.m. - 11:00 a.m.

Thu 9:30 a.m. - 11:30 a.m.

Fri 9:00 a.m. - 11:00 a.m.

Mon 3:00 p.m. - 5:00 p.m.
Heat, thermodynamics, oscillations, waves, and sound. [3-0-1] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Fluids, harmonic oscillator, travelling waves, standing waves, sound, and interference of light waves, including diffraction. [3-0-1] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.
Heat, thermodynamics, oscillations, waves, and sound. [3-0-1] Prerequisite: PHYS 157. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121.

Electricity and magnetism, DC and AC circuits, optics. [3-0-1] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 102, MATH 104, MATH 105, MATH 110, MATH 180, MATH 184.
Introductory Physics for Engineers II

Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of PHYS 157, PHYS 158.

A laboratory course with emphasis on experimental design, measurement and analysis techniques.

Electricity and magnetism, DC and AC circuits, optics. [3-0-1] Prerequisite: PHYS 157. Corequisite: One of MATH 101, MATH 103, MATH 105, MATH 121.
Mechanics I

In Person Learning

L2J

1:00 p.m. - 4:00 p.m.

Introductory Physics Laboratory for Engineers

W2

[0-3-0] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of PHYS 157, PHYS 158.

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 101, MATH 103, MATH 105, MATH 121. [3-0-1]
<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Course</th>
<th>Room</th>
<th>Instructor</th>
<th>Notes</th>
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<tr>
<td>5:00 p.m.</td>
<td>T1</td>
<td>In Person Learning</td>
<td>T1M</td>
<td>Mechanic I</td>
<td>Wed</td>
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<tr>
<td>11:00 a.m.</td>
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<td>In Person Learning</td>
<td>W2</td>
<td>Mechanic I</td>
<td>Wed</td>
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<td>10:00 a.m.</td>
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<td>Mechanics I</td>
<td>T1D</td>
<td>Arranged</td>
<td>Wed</td>
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<tr>
<td>11:00 a.m.</td>
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<td>Mechanics I</td>
<td>T2E</td>
<td>Arranged</td>
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<td>10:00 a.m.</td>
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<td>In Person Learning</td>
<td>T2A</td>
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<td>T2G</td>
<td>Arranged</td>
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<td>T2C</td>
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<td>10:00 a.m.</td>
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<td>Mechanics I</td>
<td>T2F</td>
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<td>Mechanics I</td>
<td>T2D</td>
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<td>Thu</td>
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<td>10:00 a.m.</td>
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<td>Mechanics I</td>
<td>T2B</td>
<td>Arranged</td>
<td>Thu</td>
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<tr>
<td>10:00 a.m.</td>
<td>T2</td>
<td>Mechanics I</td>
<td>T2A</td>
<td>Arranged</td>
<td>Thu</td>
</tr>
</tbody>
</table>

**In Person Learning** is a course in motion dynamics, including Newton's second law, friction, impulse, and momentum. It covers work and energy, 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 110, MATH 120, MATH 120, MATH 180, MATH 184. Recommended co-requisite one of MATH 100, MATH 101, MATH 105, MATH 121, [3-0-1]
In Person Learning

9:00 a.m. - 10:00 a.m.

10:00 a.m. - 11:00 a.m.

T1A

9:00 a.m. - 11:00 a.m.

Phys 170-T2I

Phys 170-T2K

Phys 170-T2L

Phys 170-T2M

Phys 170-T2N

Mechanics I

Mechanics I

Mechanics I

Mechanics I

Mechanics I

Intermediate Mechanics

Intermediate Mechanics

Intermediate Mechanics

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Intermediate Mechanics

Statics of particles, equilibrium of 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 130, Math 180. Recommended co-requisite: one of Math 101, Math 103, Math 105, Math 213. [3-0-1]

In Person Learning

Thu

10:00 a.m. - 11:00 a.m.

In Person Learning

Fri

3:00 p.m. - 4:00 p.m.

In Person Learning

Wed

9:00 a.m. - 10:00 a.m.

In Person Learning

Fri

10:00 a.m. - 11:00 a.m.

In Person Learning

Mon

9:00 a.m. - 10:00 a.m.

In Person Learning

Wed

9:00 a.m. - 10:00 a.m.

In Person Learning

Fri

10:00 a.m. - 11:00 a.m.

In Person Learning

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In Person Learning

Mon

9:00 a.m. - 10:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>PHYS 319-2C</td>
<td>PHYS 319-2C</td>
<td>A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [3-0-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 219.</td>
<td>In Person Learning, Web: 2.00 p.m. - 6.00 a.m.</td>
</tr>
<tr>
<td>PHYS 319-2C</td>
<td>PHYS 319-2C</td>
<td>The fundamental physics behind global issues of energy use and climate change. [3-0-0] Prerequisite: Either (i) one of MATH 161, MATH 163, MATH 213 and one of PHYS 161, PHYS 162, PHYS 165, PHYS 197, PHYS 198, PHYS 212, PHYS 213, PHYS 313, MATH 157, MATH 158, or (ii) CHEM 151.</td>
<td>In Person Learning, Thu: 2.00 p.m. - 6.00 a.m.</td>
</tr>
<tr>
<td>PHYS 333-100</td>
<td>PHYS 333-100</td>
<td>Energy and Climate</td>
<td>Hybrid Learning, Arranged: Online, Arranged.</td>
</tr>
<tr>
<td>PHYS 341-201</td>
<td>PHYS 341-201</td>
<td>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, resonance, scales, physics of hearing, examination of specific musical instruments, etc.</td>
<td>In Person Learning, Mon Wed Fri: 2.00 p.m. - 3.00 p.m.</td>
</tr>
<tr>
<td>PHYS 348-101</td>
<td>PHYS 348-101</td>
<td>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.</td>
<td>In Person Learning, Tue Thu: 2.00 p.m. - 3.30 a.m.</td>
</tr>
<tr>
<td>PHYS 348-101</td>
<td>PHYS 348-101</td>
<td>Radiation Biophysics</td>
<td>In Person Learning, Arranged: Online, Arranged.</td>
</tr>
<tr>
<td>PHYS 350-201</td>
<td>PHYS 350-201</td>
<td>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] Prerequisite: PHYS 341.</td>
<td>In Person Learning, Mon Wed Fri: 3.00 p.m. - 6.30 p.m.</td>
</tr>
<tr>
<td>PHYS 389-610</td>
<td>PHYS 389-610</td>
<td>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: [3-0-0].</td>
<td>In Person Learning, Arranged: Online, Arranged.</td>
</tr>
<tr>
<td>PHYS 389-610</td>
<td>PHYS 389-610</td>
<td>Standard model, classification of elementary particles and forces of nature, symmetries, conservation laws, quark model, quantum electricity, quantum chromodynamics, and the theory of weak interactions. [3-0-0] Prerequisite: One of PHYS 340, PHYS 415.</td>
<td>In Person Learning, Tue Thu: 9.30 a.m. - 11.00 a.m.</td>
</tr>
<tr>
<td>PHYS 391-201</td>
<td>PHYS 391-201</td>
<td>Electromagnetic Theory</td>
<td>In Person Learning, Mon Wed Fri: 1.00 p.m. - 2.00 a.m.</td>
</tr>
<tr>
<td>PHYS 391-201</td>
<td>PHYS 391-201</td>
<td>Spin and singular momentum add-on, perturbation methods, and applications in the fields of atoms, molecular, nuclear, and solid state physics. [3-0-0] Prerequisite: One of PHYS 304, PHYS 345.</td>
<td>In Person Learning, Tue Thu: 9.30 a.m. - 11.00 a.m.</td>
</tr>
<tr>
<td>PHYS 391-201</td>
<td>PHYS 391-201</td>
<td>Radiotherapy, X-ray imaging, nuclear medicine, magnetic resonance imaging and biological 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.</td>
<td>In Person Learning, Mon Wed Fri: 10.00 a.m. - 11.00 a.m.</td>
</tr>
<tr>
<td>PHYS 391-201</td>
<td>PHYS 391-201</td>
<td>Introduction to Medical Physics</td>
<td>In Person Learning, Tue Thu: 8.00 a.m. - 9.30 a.m.</td>
</tr>
<tr>
<td>PHYS 391-201</td>
<td>PHYS 391-201</td>
<td>Radiation Biophysics</td>
<td>In Person Learning, Tue Thu: 2.00 p.m. - 3.30 a.m.</td>
</tr>
<tr>
<td>PHYS 391-201</td>
<td>PHYS 391-201</td>
<td>Introduction to General Relativity</td>
<td>In Person Learning, Mon Wed Fri: 12.00 p.m. - 1.00 p.m.</td>
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<tr>
<td>PHYS 397-201</td>
<td>PHYS 397-201</td>
<td>Optics</td>
<td>In Person Learning, Wed: 8.30 a.m. - 10.00 a.m.</td>
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<td>PHYS 397-201</td>
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<td>In Person Learning, Tue: 11.00 a.m. - 12.00 p.m.</td>
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<td>PHYS 397-201</td>
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<td>PHYS 397-201</td>
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<td>In Person Learning, Fri: 2.00 p.m. - 5.00 a.m.</td>
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<td>PHYS 397-201</td>
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<td>Optics</td>
<td>In Person Learning, Mon: 2.00 p.m. - 5.30 a.m.</td>
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<td>Course Code</td>
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<tr>
<td>PHYS_V 469-A_101</td>
<td>Experimental Physics</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>PHYS_V 469-B_201</td>
<td>Experimental Physics</td>
<td>In Person Learning</td>
<td>W2</td>
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<tr>
<td>PHYS_V 469-T1A</td>
<td>Computational Physics</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>PHYS_V 469-T1B</td>
<td>Computational Physics</td>
<td>In Person Learning</td>
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<tr>
<td>PHYS_V 469-C_001</td>
<td>Physics Demonstrations</td>
<td>Arranged</td>
<td>W1-2</td>
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<tr>
<td>PHYS_V 469-DNU_C_001</td>
<td>Physics Demonstrations</td>
<td>Arranged</td>
<td>W2</td>
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<tr>
<td>PHYS_V 469-302</td>
<td>Zoological Physics</td>
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<tr>
<td>PHYS_V 469-A_101</td>
<td>Advanced Topics in Physics</td>
<td>Arranged</td>
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<td>Honours Thesis</td>
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<td>PHYS_V 469-301</td>
<td>Applied Nuclear Physics</td>
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<td>W2</td>
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<td>Directed Seminar</td>
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<td>Student Directed Seminar</td>
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<td>PHYS_V 469-A_101</td>
<td>Co-operative Work Placement IV</td>
<td>Arranged</td>
<td>W1</td>
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<td>PHYS_V 469-A_101</td>
<td>Co-operative Work Placement IV</td>
<td>Arranged</td>
<td>W2</td>
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<td>PHYS_V 469-A_101</td>
<td>Co-operative Work Placement V</td>
<td>Arranged</td>
<td>W3</td>
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<tr>
<td>PHYS/V 546-201</td>
<td>Clinical Experience in Medical Physics</td>
<td>0.5</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PHYS/V 542-201</td>
<td>Advanced Radiation Biophysics</td>
<td>3</td>
<td>Tue Thu</td>
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<tr>
<td>PHYS/V 548-201</td>
<td>Radiological Imaging</td>
<td>1.5</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PHYS/V 545-201</td>
<td>Nuclear Medicine</td>
<td>1</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PHYS/V 543-201</td>
<td>Nuclear Medicine</td>
<td>1</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PHYS/V 540-201</td>
<td>Biomedical Optics</td>
<td>1</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PHYS/V 544-201</td>
<td>Anatomy, Physiology and Statistics for Medical Physicists</td>
<td>1</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PHYS/V 541-201</td>
<td>Nuclear Medicine</td>
<td>1</td>
<td>Mon Wed Fri</td>
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Clinical treatment planning techniques, quality assurance of treatment equipment and clinical
decision making for radiation therapy. Quality assurance and decision making for medical imaging.
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<th>Credits</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN 211-001</td>
<td>City-Making: A Global Perspective</td>
<td>W2</td>
<td>Contemporary city development trends, policies, and practices across the globe as explored against the backdrops of culture and technology. Includes hands-on learning.</td>
<td>In Person Learning: Thu 11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PLAN 211-002</td>
<td>City-Making: A Global Perspective</td>
<td>W2</td>
<td>Contemporary city development trends, policies, and practices across the globe as explored against the backdrops of culture and technology. Includes hands-on learning.</td>
<td>In Person Learning: Thu 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>PLAN 211-003</td>
<td>City-Making: A Global Perspective</td>
<td>W2</td>
<td>Contemporary city development trends, policies, and practices across the globe as explored against the backdrops of culture and technology. Includes hands-on learning.</td>
<td>In Person Learning: Thu 12:30 p.m. - 1:00 p.m.</td>
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<tr>
<td>PLAN 211-004</td>
<td>City-Making: A Global Perspective</td>
<td>W2</td>
<td>Contemporary city development trends, policies, and practices across the globe as explored against the backdrops of culture and technology. Includes hands-on learning.</td>
<td>In Person Learning: Thu 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>PLAN 221-001</td>
<td>City-Weapon</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning: Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>PLAN 231-001</td>
<td>Methods of Community Engagement</td>
<td>W1</td>
<td>Examination of various approaches to hands-on engagement with urban communities while examining the meaning of public, community, and participation. Prerequisite: Second-year standing.</td>
<td>In Person Learning: Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PLAN 231-002</td>
<td>The Just City in a Divided World</td>
<td>W1</td>
<td>Considers the city as a terrain for the manifestation and mediation of social justice. Explores how the allocation of land, goods, and services is strike-primed 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.</td>
<td>In Person Learning: Tue Thu 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>PLAN 241-001</td>
<td>Smart Cities: Concepts, Methods and Design</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning: Tue 2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>PLAN 241-071</td>
<td>Smart Cities: Concepts, Methods and Design</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning: Thu 2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>PLAN 241-072</td>
<td>Smart Cities: Concepts, Methods and Design</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning: Thu 2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>PLAN 241-073</td>
<td>Smart Cities: Concepts, Methods and Design</td>
<td>W2</td>
<td>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.</td>
<td>In Person Learning: Thu 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>PLAN 251-001</td>
<td>Green Cities</td>
<td>W1</td>
<td>The key social and technological challenges, contradictions, and opportunities in planning for ecologically sound urbanization. Prerequisite: Second-year standing.</td>
<td>In Person Learning: Tue 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>PLAN 261-001</td>
<td>Community Planning in a World of Diversity</td>
<td>W1</td>
<td>Examination of how the diverse, multicultural, and cosmopolitan aspects of cities create challenges and opportunities for community planning. Prerequisite: Third-year standing.</td>
<td>In Person Learning: Wed 1:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PLAN 425-002</td>
<td>Urban Planning Issues and Concepts</td>
<td>W2</td>
<td>Evaluation, planning and design 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.</td>
<td>In Person Learning: Fri 8:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PLAN 452-001</td>
<td>Urban Studies Capstone II</td>
<td>W2</td>
<td>Application of key elements of urban studies theory, sociocultural, and methods to a community-engaged urban challenge. Prerequisite: GEOG 451. Fourth-year standing. Equivalency: UGST 402</td>
<td>In Person Learning: Mon 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>PLAN 500-001</td>
<td>Comparative Perspectives on Planning History and Futures</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Tue 1:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>PLAN 501-001</td>
<td>Recomposition and Planning</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Tue 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN 502-001</td>
<td>Sustainability and Resilience in Planning</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning: Thu 9:00 a.m. - 12:00 p.m.</td>
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</table>
### Making and Implementing Community and Regional Plans

**W1-2**

**9:00 a.m. - 12:00 p.m.**

- **Planning Praxis**
  - In Person Learning
  - Internship
  - This course is not eligible for Credit/D/Fail grading.

- **Planning Theory, Values, and Ethics**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **Information and Analysis in Planning**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

### Engineering and Facilitation for Planners

**W1**

**9:00 a.m. - 12:00 p.m.**

- **Engagement and Facilitation for Planners**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **Indigenous Planning: Ways of Being, Knowing and Doing**
  - In Person Learning
  - Pass/Fail. This course is not eligible for Credit/D/Fail grading.

### Planning for Disaster-Resilient Communities

**W2**

**9:00 a.m. - 12:00 p.m.**

- **Indigenous Planning: Ways of Being, Knowing and Doing**
  - In Person Learning
  - Pass/Fail. This course is not eligible for Credit/D/Fail grading.

- **Urban Economics, Infrastructure, and Real Estate Issues in Planning**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

### The Legal and Institutional Context of Planning

**W1**

**9:00 a.m. - 12:00 p.m.**

- **The Legal and Institutional Context of Planning**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **Indigenous Law, Governance and Community Planning**
  - In Person Learning
  - Pass/Fail. This course is not eligible for Credit/D/Fail grading.

### Indigenous Planning: Ways of Being, Knowing and Doing

**W2**

**9:00 a.m. - 12:00 p.m.**

- **The Legal and Institutional Context of Planning**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **Indigenous Law, Governance and Community Planning**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

### Planning for Community Economic Development

**W1**

**1:00 p.m. - 4:00 p.m.**

- **Engagement and Facilitation for Planners**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **Urban Design and Visual Representation**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

### Strategic Planning: Developing and Implementing Policy Plans

**W2**

**1:00 p.m. - 4:00 p.m.**

- **Engagement and Facilitation for Planners**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **A Perspective on Disaster Resilience**
  - In Person Learning
  - This course is not eligible for Credit/D/Fail grading.
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<th>Type</th>
<th>Days</th>
<th>Time</th>
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<tr>
<td>PLAN_V 543-001</td>
<td>W1-2</td>
<td>Indigenous Community Planning Practicum</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 4:00 p.m.</td>
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<tr>
<td>PLAN_V 548-A_001</td>
<td>W1</td>
<td>Current Issues in Planning</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>PLAN_V 548-G_001</td>
<td>W1</td>
<td>Current Issues in Planning</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>PLAN_V 548-L_001</td>
<td>W1</td>
<td>Current Issues in Planning</td>
<td>In Person Learning</td>
<td>Wed-Fri</td>
<td>1:30 p.m. - 2:30 p.m.</td>
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<td>Current Issues in Planning</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>PLAN_V 548-R_001</td>
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<td>In Person Learning</td>
<td>Wed</td>
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<td>W1</td>
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<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 4:00 p.m.</td>
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<td>W2</td>
<td>Current Issues in Planning</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>Master's Thesis</td>
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<td>PLAN_V 550-A_001</td>
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<td>In Person Learning</td>
<td>Arranged</td>
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<td>PLAN_V 550-A_002</td>
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<td>Directed Studies</td>
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<td>PLAN_V 558-A_001</td>
<td>W1</td>
<td>The Role of Theory in Planning Research</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>12:00 p.m. - 3:00 p.m.</td>
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<td>PLAN_V 558-A_003</td>
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<td>The Role of Theory in Planning Research</td>
<td>In Person Learning</td>
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<td>PLAN_V 558-B_001</td>
<td>W1</td>
<td>Research and preparation of a thesis in public policy or professional practice. This course is not eligible for Credit/D/Fail grading.</td>
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<td>PLAN_V 558-B_002</td>
<td>W2</td>
<td>Research and preparation of a thesis in public policy or professional practice. This course is not eligible for Credit/D/Fail grading.</td>
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<td>W1-2</td>
<td>Research and preparation of a thesis in public policy or professional practice. This course is not eligible for Credit/D/Fail grading.</td>
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<td>PLAN_V 560-A_001</td>
<td>W2</td>
<td>Design of Planning- and Policy-Oriented Research</td>
<td>In Person Learning</td>
<td>W2</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>W1</td>
<td>Design of Planning- and Policy-Oriented Research</td>
<td>In Person Learning</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>PLAN_V 560-A_003</td>
<td>W1-2</td>
<td>Design of Planning- and Policy-Oriented Research</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>PLAN_V 580-A_001</td>
<td>W1</td>
<td>Urban Transportation Planning</td>
<td>In Person Learning</td>
<td>Mon</td>
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<td>PLAN_V 580-A_002</td>
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<td>Urban Transportation Planning</td>
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<td>Mon</td>
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<td>PLAN_V 587-A_001</td>
<td>W2</td>
<td>Urban Design</td>
<td>In Person Learning</td>
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<td>PLAN_V 602-A_001</td>
<td>W2</td>
<td>Planning Theory Advanced Seminar</td>
<td>In Person Learning</td>
<td>Thu</td>
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<td>PLAN_V 603-A_001</td>
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<td>Research and preparation of a thesis in public policy or professional practice. This course is not eligible for Credit/D/Fail grading.</td>
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<td>PLNT_V 540-101</td>
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<td>PLNT_V 580-A_001</td>
<td>Advanced Topics in Plant Science</td>
<td>W1</td>
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<td>POLI_V 100-001</td>
<td>PESL_V</td>
<td>Introduction to Politics</td>
<td>W1</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>POLI_V 100-002</td>
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<td>W1</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>PESL_V</td>
<td>Introduction to Politics</td>
<td>W2</td>
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<td>POLI_V 100-004</td>
<td>PESL_V</td>
<td>Introduction to Politics</td>
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<td>POLI_V 100-005</td>
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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.
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Introduction to Politics

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## Investigating Politics: An Introduction to Scientific Political Analysis

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### Core Research Tasks
- Asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.

### The Logic, Challenges, and Major Strategies of Empirical Political Research
- Asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.
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.

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.

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<th>Course Code</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>POLI_V 260-L2G</td>
<td>Mon 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2H</td>
<td>Wed 11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L1I</td>
<td>Mon 5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L1J</td>
<td>Wed 12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2A</td>
<td>Wed 4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>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.</td>
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<td>POLI_V 260-L2B</td>
<td>Wed 12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>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.</td>
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<td>POLI_V 260-L2C</td>
<td>Wed 3:30 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2D</td>
<td>Wed 9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2E</td>
<td>Wed 5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2F</td>
<td>Wed 3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2G</td>
<td>Wed 12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2H</td>
<td>Wed 11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2I</td>
<td>Wed 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2J</td>
<td>Wed 12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>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.</td>
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<td>POLI_V 260-L2K</td>
<td>Wed 4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2L</td>
<td>Wed 1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<td>POLI_V 260-L2M</td>
<td>Wed 11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2N</td>
<td>Wed 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2O</td>
<td>Wed 1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2P</td>
<td>Wed 11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2Q</td>
<td>Wed 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2R</td>
<td>Wed 1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<tr>
<td>POLI_V 260-L2S</td>
<td>Wed 11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>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.</td>
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</table>
POLI_V 260-1.3I
Introduction to Global Politics
- 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, 110 required. All of POLI 100, POLI 101, POLI 110.
Online Learning Thu 2:00 p.m. - 3:00 p.m.

POLI_V 260-1.3I
Introduction to Global Politics
- 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, 110 required. All of POLI 100, POLI 101, POLI 110.
Online Learning Fri 3:00 p.m. - 4:00 p.m.

POLI_V 260-1.34
Introduction to Global Politics
- 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, 110 required. All of POLI 100, POLI 101, POLI 110.
Online Learning Thu 3:00 p.m. - 4:00 p.m.

POLI_V 260-1.3I
Introduction to Global Politics
- 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 and decision-making from Canada and other countries. Prerequisite: All of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.
Online Learning Fri 11:00 a.m. - 12:00 p.m.

POLI_V 302 A_001
Public Administration
- 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 Mon Wed 2:00 p.m. - 3:00 p.m.
Arranged

POLI_V 304 001
British Columbia Government and Politics
- An examination of political history, party politics, and public policy in British Columbia. Prerequisite: Two of POLI 100, POLI 101, POLI 110, POLI 130, POLI 240. Or third-year standing or higher.
In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.
Arranged

POLI_V 305 001
Canadian Political Ideas
- Political theories and ideologies in Canada. Prerequisite: All of POLI 100, POLI 101, POLI 130, POLI 240. Or third-year standing or higher.
In Person Learning Arranged
Arranged

POLI_V 308 D_001
Topics in Canadian Politics
- Uses game theory to show how politicians, interest groups, and non-governmental organizations manipulate institutional rules. Prerequisite: Two of POLI 100, POLI 101, POLI 130, POLI 240. Or third-year standing or higher.
In Person Learning Mon Wed 4:00 p.m. - 5:00 p.m.
Arranged

POLI_V 310 001
The Strategy of Politics
- 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 Mon Wed 3:30 p.m. - 5:00 p.m.
Arranged

POLI_V 320 A_001
Government and Politics of the United States of America
- 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 Mon Wed
Arranged

POLI_V 320 B_001
Government and Politics of the United States of America
- 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.
Arranged

POLI_V 321 A_001
Chinese Politics and Development
- The political systems of contemporary South Asia. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.
In Person Learning Mon Arranged
Arranged

POLI_V 324 A_001
Southeast Asian Government and Politics
- The political systems of contemporary South Asia. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.
In Person Learning Mon Arranged
Arranged

POLI_V 327 001
European Integration
- Post-SHS 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.
Arranged

POLI_V 328 C_001
Topics in Comparative Politics
- 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.
Arranged

POLI_V 328 F_001
Topics in Comparative Politics
- 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.
Arranged

POLI_V 328 G_001
Topics in Comparative Politics
- 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.
Arranged

POLI_V 332 A_001
Politics and Government of Latin America
- 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.
Arranged

POLI_V 333 A_001
Issues in Comparative Politics
- An examination of a major issue in comparative politics. 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 Thu 2:00 p.m. - 3:30 p.m.
Arranged

POLI_V 333 C_001
Issues in Comparative Politics
- An examination of a major issue in comparative politics. 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 Thu 12:30 p.m. - 2:00 p.m.
Arranged

POLI_V 333 D_001
Issues in Comparative Politics
- An examination of a major issue in comparative politics. 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
Issues in Comparative Politics
- An examination of a major issue in comparative politics. 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 Thu 12:30 p.m. - 1:30 p.m.
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<th>Course Code</th>
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<td>POLI 100</td>
<td>A_001</td>
<td>345 A_001</td>
<td>Gender and Politics: Political Thought and Practice</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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<td>POLI 101</td>
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<td>Gender and Politics; Political Thought and Practice</td>
<td>W2</td>
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<td>POLI 101</td>
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<td>Gender and Politics: Political Thought and Practice</td>
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<td>POLI 240</td>
<td>A_001</td>
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<td>Law and Political Theory</td>
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<td>POLI 240</td>
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<td>POLI 350</td>
<td>A_001</td>
<td>348 A_001</td>
<td>Public Policy</td>
<td>W2</td>
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<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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<td>POLI 350</td>
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<td>Public Policy</td>
<td>W2</td>
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<td>POLI 360</td>
<td>A_001</td>
<td>350 A_001</td>
<td>Environmental Politics and Policy</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>POLI 360</td>
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<td>W2</td>
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<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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<tr>
<td>POLI 360</td>
<td>A_001</td>
<td>360 A_001</td>
<td>Environmental Politics and Policy</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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<td>POLI 360</td>
<td>A_001</td>
<td>361 A_001</td>
<td>Environmental Politics and Policy</td>
<td>W2</td>
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<td>POLI 360</td>
<td>A_001</td>
<td>362 A_001</td>
<td>Environmental Politics and Policy</td>
<td>W2</td>
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<td>A_001</td>
<td>363 A_001</td>
<td>Environmental Politics and Policy</td>
<td>W2</td>
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<td>Environmental Politics and Policy</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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<td>368 A_001</td>
<td>Environmental Politics and Policy</td>
<td>W2</td>
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<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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<td>POLI 360</td>
<td>A_001</td>
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<td>Environmental Politics and Policy</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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<tr>
<td>POLI 360</td>
<td>A_001</td>
<td>370 A_001</td>
<td>Environmental Politics and Policy</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td></td>
<td>Two of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
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</table>
In Person Learning  Mon Wed  3:30 p.m. - 5:00 p.m.

Problems of managing conflict in the international system. Possible topics include intervention, mediation, or sanctions. Topics vary every year; see www.politics.ubc.ca/courses. Prerequisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.

POLI_V 376-A_002

12:30 p.m. - 2:00 p.m.

Problems of managing conflict in the international system. Possible topics include intervention, mediation, or sanctions. Topics vary every year; see www.politics.ubc.ca/courses. Prerequisite: Two of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or above.

POLI_V 376-A_001

Topics in International Conflict Management

W1

In Person Learning  Mon Wed  3:30 p.m. - 5:00 p.m.

In Person Learning  Tue Thu  6:00 p.m. - 7:00 p.m.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

In Person Learning  Mon Wed Fri  9:00 a.m. - 10:30 a.m.

In Person Learning  Mon Wed Fri  9:00 a.m. - 10:30 a.m.

In Person Learning  Mon Wed Fri  9:00 a.m. - 10:30 a.m.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

In Person Learning  Tue Thu  11:00 a.m. - 12:00 p.m.

In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

In Person Learning  Mon Wed  12:30 p.m. - 2:00 p.m.

In Person Learning  Wed  9:00 a.m. - 12:30 p.m.

In Person Learning  Thu  2:00 p.m. - 5:00 p.m.

In Person Learning  Arranged  Arranged

In Person Learning  Thu  9:00 a.m. - 12:00 p.m.

In Person Learning  Mon  9:00 a.m. - 12:00 p.m.

In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

In Person Learning  Thu  2:00 p.m. - 5:00 p.m.

In Person Learning  Thu  9:00 a.m. - 12:00 p.m.

In Person Learning  Mon  9:00 a.m. - 12:00 p.m.

In Person Learning  Wed  2:00 p.m. - 5:00 p.m.
In Person Learning

464 Thu

464 Mon

A_001

W1

Y_002 Wed

Comparative Western Governments
9:00 a.m. - 12:00 p.m.
D

2:00 p.m. - 5:00 p.m.
Honours Thesis
In Person Learning

462

449

In Person Learning

462

449

A_001

Mon

Wed

9:00 a.m. - 12:00 p.m.

9:00 a.m. - 12:00 p.m.

This course is not eligible for Credit/D/Fail grading.

A_001

B_001

2:00 p.m. - 5:00 p.m.

2:00 p.m. - 5:00 p.m.

In Person Learning

462

449

B_002

D_002

Topics in Political Theory

9:00 a.m. - 12:00 p.m.

504

H

H_001 Topics in Canadian Politics

W1

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

A_001

D_001

Comparative Western Governments

W1

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

A_001

D_001

Issues in Comparative Politics

W1

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

Y

Y_002

Issues in Comparative Politics

W1

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

A_001

K_001

International Relations Theory

W1

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

D_002

J_001

Advanced Topics in International Relations

W2

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

D_002

J_001

Advanced Topics in International Relations

W2

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

D_002

J_001

Advanced Topics in International Relations

W2

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.

D_002

J_001

Advanced Topics in International Relations

W2

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In Person Learning

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D_002

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Advanced Topics in International Relations

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In Person Learning

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Advanced Topics in International Relations

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In Person Learning

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D_002

J_001

Advanced Topics in International Relations

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In Person Learning

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D_002

J_001

Advanced Topics in International Relations

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J_001

Advanced Topics in International Relations

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J_001

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D_002

J_001

Advanced Topics in International Relations

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Advanced Topics in International Relations

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J_001

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J_001

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In Person Learning

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D_002

J_001

Advanced Topics in International Relations

W2

2:00 p.m. - 5:00 p.m.

In Person Learning

This course is not eligible for Credit/D/Fail grading.
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<td>POLI_V 521</td>
<td>A</td>
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<td>POLI_V 521-B_001</td>
<td>POLI_V 521</td>
<td>B</td>
<td>B_001</td>
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<td>POLI_V 523</td>
<td>A</td>
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<td>B</td>
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<td>POLI_V 523</td>
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<td>B_002</td>
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<td>POLI_V 547</td>
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<td>POLI_V 548</td>
<td>A</td>
<td>A_001</td>
<td>W1</td>
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<td>In Person Learning</td>
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<td>A_001</td>
<td>W2</td>
<td>Master’s Thesis</td>
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<td>POLI_V 561</td>
<td>A</td>
<td>A_001</td>
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<td>POLI_V 562</td>
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<td>A_001</td>
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<td>POLI_V 562</td>
<td>B</td>
<td>B_001</td>
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<td>POLI_V 571</td>
<td>A</td>
<td>A_001</td>
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<td>A_001</td>
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<td>B</td>
<td>B_001</td>
<td>W2</td>
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<tr>
<td>POLI_V 580-A_001</td>
<td>POLI_V 580</td>
<td>A</td>
<td>A_001</td>
<td>W1</td>
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<td>POLI_V 580-B_001</td>
<td>POLI_V 580</td>
<td>B</td>
<td>B_001</td>
<td>W2</td>
<td>Directed Studies</td>
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<tr>
<td>POLI_V 582-C_001</td>
<td>POLI_V 582</td>
<td>C</td>
<td>C_001</td>
<td>W1-2</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
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<tr>
<td>POLI_V 649-A_001</td>
<td>POLI_V 649</td>
<td>A</td>
<td>A_001</td>
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<tr>
<td>POLI_V 649-B_001</td>
<td>POLI_V 649</td>
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<td>B_001</td>
<td>W2</td>
<td>Doctoral Dissertation</td>
<td>In Person Learning</td>
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**POLI_V 547-A_001** is the only course among the listed courses that is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
<table>
<thead>
<tr>
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<th>Schedule</th>
<th>Location</th>
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<tr>
<td>PORT_V 101-101</td>
<td>PORT_V 101</td>
<td>101</td>
<td>First-Year Portuguese I</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>PORT_V 101-102</td>
<td>PORT_V 101</td>
<td>102</td>
<td>First-Year Portuguese I</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>PORT_V 101-201</td>
<td>PORT_V 101</td>
<td>201</td>
<td>First-Year Portuguese II</td>
<td>W1</td>
<td>Grammar, composition, translation, oral practice. Credit will be granted for only one of PORT 102 or PORT 202. Recommended pre-requisite: PORT 101. In Person Learning. Tue Thu. 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>PORT_V 201-101</td>
<td>PORT_V 201</td>
<td>101</td>
<td>Second-Year Portuguese I</td>
<td>W1</td>
<td>Grammar, composition, translation, oral practice. Credit may be granted for only one of PORT 201 or PORT 210. Recommended pre-requisite: PORT 201. In Person Learning. Mon Wed Fri. 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PORT_V 202-101</td>
<td>PORT_V 202</td>
<td>201</td>
<td>Second-Year Portuguese II</td>
<td>W2</td>
<td>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. Tue Thu. 12:30 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>PORT_V 222-101</td>
<td>PORT_V 222</td>
<td>101</td>
<td>Introduction to the Analysis of Portuguese and Brazilian Cultures [in English]</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>PORT_V 222-102</td>
<td>PORT_V 222</td>
<td>102</td>
<td>Introduction to the Analysis of Portuguese and Brazilian Cultures [in English]</td>
<td>W1</td>
<td>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. Tue Thu. 5:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>PORT_V 222-201</td>
<td>PORT_V 222</td>
<td>201</td>
<td>Introduction to the Analysis of Portuguese and Brazilian Cultures [in English]</td>
<td>W1</td>
<td>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.</td>
</tr>
<tr>
<td>PORT_V 380-201</td>
<td>PORT_V 380</td>
<td>201</td>
<td>Studies in Portuguese and Brazilian Literature [in English]</td>
<td>W2</td>
<td>Selected topics. Please see the Department website for current course offering information. Credit will be granted for only one of PORT 302 or RMST 361. Equivalency: RMST 361. In Person Learning. Tue Thu. 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>PPGA_V 391-A_001</td>
<td>PPGA_V 391</td>
<td>A</td>
<td>A_A01</td>
<td>Topics in Public Policy and Global Affairs</td>
<td>W2</td>
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<tr>
<td>PPGA_V 500-A_001</td>
<td>PPGA_V 500</td>
<td>A</td>
<td>A_A01</td>
<td>Economics for Policy</td>
<td>W1</td>
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<tr>
<td>PPGA_V 500-A_101</td>
<td>PPGA_V 500</td>
<td>A</td>
<td>A_101</td>
<td>Economics for Policy</td>
<td>W1</td>
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<tr>
<td>PPGA_V 500-A_102</td>
<td>PPGA_V 500</td>
<td>A</td>
<td>A_102</td>
<td>Economics for Policy</td>
<td>W1</td>
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<tr>
<td>PPGA_V 500-B_101</td>
<td>PPGA_V 500</td>
<td>B</td>
<td>B_101</td>
<td>Economics for Policy</td>
<td>W2</td>
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<tr>
<td>PPGA_V 500-B_102</td>
<td>PPGA_V 500</td>
<td>B</td>
<td>B_102</td>
<td>Economics for Policy</td>
<td>W2</td>
</tr>
<tr>
<td>PPGA_V 503-001</td>
<td>PPGA_V 503</td>
<td>001</td>
<td>Measurement and Data Analysis for Policy</td>
<td>W1</td>
<td>Fundamentals of policy analysis and program evaluation. Credit will be granted for only one of PPGA 503 or both PPGA 504, PPGA 505 or both GPP 504, GPP 505. 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.</td>
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<tr>
<td>PPGA_V 503-101</td>
<td>PPGA_V 503</td>
<td>101</td>
<td>Measurement and Data Analysis for Policy</td>
<td>W1</td>
<td>Fundamentals of policy analysis and program evaluation. Credit will be granted for only one of PPGA 503 or both PPGA 504, PPGA 505 or both GPP 504, GPP 505. 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.</td>
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<tr>
<td>PPGA_V 503-102</td>
<td>PPGA_V 503</td>
<td>102</td>
<td>Measurement and Data Analysis for Policy</td>
<td>W1</td>
<td>Fundamentals of policy analysis and program evaluation. Credit will be granted for only one of PPGA 503 or both PPGA 504, PPGA 505 or both GPP 504, GPP 505. 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.</td>
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<tr>
<td>PPGA_V 503-103</td>
<td>PPGA_V 503</td>
<td>103</td>
<td>Measurement and Data Analysis for Policy</td>
<td>W1</td>
<td>Fundamentals of policy analysis and program evaluation. Credit will be granted for only one of PPGA 503 or both PPGA 504, PPGA 505 or both GPP 504, GPP 505. 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.</td>
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<tr>
<td>PPGA_V 504-001</td>
<td>PPGA_V 504</td>
<td>001</td>
<td>Policy Analysis and Evaluation</td>
<td>W2</td>
<td>Fundamentals of policy analysis and program evaluation for a professional context. Credit will be granted for only one of PPGA 504 or both PPGA 505, PPGA 506 or both GPP 505, GPP 506. 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. 10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PPGA_V 504-002</td>
<td>PPGA_V 504</td>
<td>002</td>
<td>Policy Analysis and Evaluation</td>
<td>W2</td>
<td>Fundamentals of policy analysis and program evaluation for a professional context. Credit will be granted for only one of PPGA 504 or both PPGA 505, PPGA 506 or both GPP 505, GPP 506. 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. - 3:00 p.m.</td>
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<tr>
<td>PPGA_V 505-001</td>
<td>PPGA_V 505</td>
<td>001</td>
<td>Domestic and Global Policy Processes</td>
<td>W1</td>
<td>Theorized and evaluated processes in both the domestic and global levels. Credit may be granted for only one of PPGA 505 or both PPGA 506, PPGA 507 or both GPP 506, GPP 507. 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.</td>
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In Person Learning Wed
2:00 p.m. - 5:00 p.m.

In Person Learning Mon
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In Person Learning Thu
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2:00 p.m. - 5:00 p.m.

In Person Learning Fri
2:00 p.m. - 3:30 p.m.

In Person Learning Mon
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In Person Learning Thu
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In Person Learning 9:30 a.m. - 12:30 p.m.  W2

In Person Learning 9:00 a.m. - 12:00 p.m.  W2

Internet and Global Affairs 9:30 a.m. - 12:30 p.m.  W2

Policy Responses to Global Climate Change 9:30 a.m. - 12:30 p.m.  W1

In Person Learning Tue Thu 9:30 a.m. - 12:30 p.m.  W2

In Person Learning 2:00 p.m. - 5:00 p.m.  Tue Thu 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

In Person Learning 10:00 a.m. - 1:00 p.m.  Mon 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Thu 591

In Person Learning 9:30 a.m. - 12:30 p.m.  B_001

In Person Learning 10:00 a.m. - 1:00 p.m.  Mon 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Thu 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Wed 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Tue 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Mon 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

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In Person Learning 10:00 a.m. - 1:00 p.m.  Mon 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

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In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Wed 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

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In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Mon 591

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In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Tue 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Mon 591

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In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Wed 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Wed 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2

In Person Learning 10:00 a.m. - 1:00 p.m.  Tue 591

In Person Learning 2:00 p.m. - 5:00 p.m.  Tue 591

In Person Learning 3:30 p.m. - 5:30 p.m.  W2
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<th>Course Code</th>
<th>Course Name</th>
<th>Type</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>PSYC_V 101-001</td>
<td>Introductory Psychology</td>
<td>W1</td>
<td>TTh</td>
<td>9:30 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>PSYC_V 102-004</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Online Learning</td>
<td>Tue Thu</td>
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<tr>
<td>PSYC_V 101-005</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue Th</td>
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<tr>
<td>PSYC_V 101-006</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>2:30 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PSYC_V 101-010</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<td>Tue Th</td>
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<tr>
<td>PSYC_V 101-011</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
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<td>In Person Learning</td>
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<tr>
<td>PSYC_V 101-015</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<td>Tue Th</td>
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<td>PSYC_V 101-001</td>
<td>Introductory Psychology</td>
<td>W1</td>
<td>TTh</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PSYC_V 102-001</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Tue Th</td>
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<tr>
<td>PSYC_V 102-002</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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<tr>
<td>PSYC_V 102-003</td>
<td>Introductory Psychology</td>
<td>W2</td>
<td>TTh</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
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</table>
PSYC_V 217-005
PSYC_V 102
005
Introduction to Developmental, Social, Personality, and Clinical Psychology W2
Use basic principles of quantitative psychological research methods to critique psychological claims presented in the media and 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
Mon Wed Fri
11:00 a.m. - 12:00 p.m.

PSYC_V 217-007
PSYC_V 107
007
Introduction to Developmental, Social, Personality, and Clinical Psychology W2
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 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 217-008
PSYC_V 108
008
Introduction to Developmental, Social, Personality, and Clinical Psychology W2
Focus on methods and statistics, motivation, assessment, developmental, personality, clinical, and social psychology. Credit will be granted for only one of PSYC 100 and PSYC 102.
In Person Learning
Tue Thu
11:00 a.m. - 12:00 p.m.

PSYC_V 217-009
PSYC_V 109
009
Introduction to Developmental, Social, Personality, and Clinical Psychology W2
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 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 217-062
PSYC_V 162
062
Introduction to Developmental, Social, Personality, and Clinical Psychology W2
Introduction to methods and statistics, motivation, assessment, developmental, personality, clinical, and social psychology. Credit will be granted for only one of PSYC 100 and PSYC 102.
In Person Learning
Thu
5:00 p.m. - 6:30 p.m.

PSYC_V 207-001
PSYC_V 207
001
Contemporary Topics in Biological and Cognitive Psychology W1
A focus on the interpretation of contemporary research in neuroscience, cognition, perception, memory, and learning.
In Person Learning
Tue Thu
10:00 a.m. - 12:00 p.m.

PSYC_V 207-002
PSYC_V 207
002
Contemporary Topics in Biological and Cognitive Psychology W2
A focus on the interpretation of contemporary research in neuroscience, cognition, perception, memory, and learning.
In Person Learning
Tue Thu
3:30 p.m. - 5:30 p.m.

PSYC_V 207-003
PSYC_V 207
003
Contemporary Topics in Biological and Cognitive Psychology W2
A focus on the interpretation of contemporary research in neuroscience, cognition, perception, memory, and learning.
In Person Learning
Tue Thu
11:00 a.m. - 12:00 p.m.

PSYC_V 208-001
PSYC_V 208
001
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.
In Person Learning
Tue Thu
2:30 p.m. - 4:30 p.m.

PSYC_V 208-003
PSYC_V 208
003
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.
In Person Learning
Tue Thu
9:30 a.m. - 11:00 a.m.

PSYC_V 209-061
PSYC_V 209
061
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
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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 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 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 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 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 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 PSYC 100 or (b) all of PSYC 101, PSYC 102.
In Person Learning
Mon Wed Fri
9:30 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 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 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 PSYC 100 or (b) all of PSYC 101, PSYC 102.
In Person Learning
Mon Wed Fri
12:00 p.m. - 1:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>PSYC 101</td>
<td>3.00</td>
<td>Research Methods</td>
<td></td>
<td>Mon Wed Fri</td>
<td>9:30 a.m. - 10:30 a.m.</td>
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<tr>
<td>PSYC 102</td>
<td>3.00</td>
<td>Research Methods</td>
<td></td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PSYC 218</td>
<td>3.00</td>
<td>Analysis of Behavioural Data</td>
<td>Tue Thu</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>W1</td>
</tr>
<tr>
<td>PSYC 217</td>
<td>3.00</td>
<td>Use of inferential statistics in psychology and conceptual interpretation of data; 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 PSYC 218 or PSYC 278.</td>
<td></td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PSYC 218</td>
<td>3.00</td>
<td>Analysis of Behavioural Data</td>
<td>W1</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>W1</td>
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<tr>
<td>PSYC 217</td>
<td>3.00</td>
<td>Use of inferential statistics in psychology and conceptual interpretation of data; 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 PSYC 218 or PSYC 278.</td>
<td></td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>PSYC 218</td>
<td>3.00</td>
<td>Analysis of Behavioural Data</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>W1</td>
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<tr>
<td>PSYC 217</td>
<td>3.00</td>
<td>Use of inferential statistics in psychology and conceptual interpretation of data; 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 PSYC 218 or PSYC 278.</td>
<td></td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PSYC 218</td>
<td>3.00</td>
<td>Analysis of Behavioural Data</td>
<td>W1</td>
<td>3:30 p.m. - 4:30 p.m.</td>
<td>W1</td>
</tr>
<tr>
<td>PSYC 217</td>
<td>3.00</td>
<td>Use of inferential statistics in psychology and conceptual interpretation of data; 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 PSYC 218 or PSYC 278.</td>
<td></td>
<td>Mon Wed Fri</td>
<td>6:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>PSYC 218</td>
<td>3.00</td>
<td>Analysis of Behavioural Data</td>
<td>W1</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>W1</td>
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<tr>
<td>PSYC 217</td>
<td>3.00</td>
<td>Use of inferential statistics in psychology and conceptual interpretation of data; 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 PSYC 218 or PSYC 278.</td>
<td></td>
<td>Mon Wed Fri</td>
<td>7:30 p.m. - 8:30 p.m.</td>
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Note: This course is not eligible for Credit/D/Fail grading. Corequisite: Either PSYC 218 or PSYC 278.
In Person Learning
301
030
015
9:30 a.m. - 11:00 a.m.

Analysis of Behavioural and Neuroscientific Data
300
L03
005
Tue Thu
12:00 p.m. - 2:00 p.m.

Abnormal Psychology
301
W2
In Person Learning

Behavioural and Neuroscientific Research Methods
277
L02
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
W2
In Person Learning

Behavioural and Neuroscientific Research Methods
277
L03
001
Fri
2:00 p.m. - 3:30 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
278
L04
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
278
L03
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
278
L02
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
277
L03
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
278
L04
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
277
L02
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
277
L01
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
277-001
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
277-L03
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
278-L04
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
277-L02
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
001
Brain Dysfunction and Recovery
277-L01
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
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Brain Dysfunction and Recovery
278-L03
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
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Brain Dysfunction and Recovery
278-L02
001
Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
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Brain Dysfunction and Recovery
278-L01
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Wed
1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
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1:00 p.m. - 2:00 p.m.

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1:00 p.m. - 2:00 p.m.

Brain Dysfunction and Recovery
300
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Brain Dysfunction and Recovery
277-001
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Wed
1:00 p.m. - 2:00 p.m.
Cognitive and behavioural 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.

Cognitive and behavioural 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.

Cognitive and behavioural 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.

Cognitive and behavioural 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.

Cognitive and behavioural 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

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.

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.

Theory and practice of psychological measurement, 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  Wed  5:00 p.m. - 8:00 p.m.

Theory and practice of psychological measurement, 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  10:00 a.m. - 12:30 p.m.

Theory and practice of psychological measurement, 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.

Theory and practice of psychological measurement, 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  10:00 a.m. - 12:30 p.m.

Theory and practice of psychological measurement, 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.

Theory and practice of psychological measurement, 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. - 12:00 p.m.

Theory and practice of psychological measurement, 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.

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, 102, and one of PSYC 216, PSYC 217, or 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.

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, 102, and one of PSYC 216, PSYC 217, or 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.
Course Title: Personality Psychology
In Person Learning

Course Title: Cultural Psychology
In Person Learning

Course Title: Principles of Animal Behaviour
Online Learning

Course Title: Cultural Psychology
Online Learning

Course Title: Cultural Psychology
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<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tr>
<td>PSYC 308-004</td>
<td>Social Psychology</td>
<td>W2</td>
<td></td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<td>PSYC 309-001</td>
<td>Cognitive Processes</td>
<td>W1</td>
<td></td>
<td>315 992</td>
<td>In Person Learning</td>
<td>Tue Thu 2:00 p.m. - 3:30 p.m.</td>
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<td>PSYC 309-002</td>
<td>Cognitive Processes</td>
<td>W2</td>
<td></td>
<td>315 992</td>
<td>In Person Learning</td>
<td>Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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<td>PSYC 309-003</td>
<td>Cognitive Processes</td>
<td>W2</td>
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<td>315 992</td>
<td>In Person Learning</td>
<td>Tue Thu 12:00 a.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC 311-001</td>
<td>Psychology of Sport</td>
<td>W1</td>
<td></td>
<td>311 991</td>
<td>In Person Learning</td>
<td>Arranged 4:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PSYC 311-004</td>
<td>Psychology of Sport</td>
<td>W2</td>
<td></td>
<td>311 991</td>
<td>In Person Learning</td>
<td>Arranged 4:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PSYC 311-005</td>
<td>Psychology of Sport</td>
<td>W2</td>
<td></td>
<td>311 991</td>
<td>In Person Learning</td>
<td>Arranged 4:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PSYC 311-006</td>
<td>Psychology of Sport</td>
<td>W1</td>
<td></td>
<td>311 991</td>
<td>In Person Learning</td>
<td>Wed 6:00 p.m. - 8:30 p.m.</td>
</tr>
<tr>
<td>PSYC 314-001</td>
<td>Health Psychology</td>
<td>W1</td>
<td></td>
<td>314 992</td>
<td>In Person Learning</td>
<td>Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>PSYC 314-002</td>
<td>Health Psychology</td>
<td>W1</td>
<td></td>
<td>314 992</td>
<td>In Person Learning</td>
<td>Tue Thu 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PSYC 314-003</td>
<td>Health Psychology</td>
<td>W2</td>
<td></td>
<td>314 992</td>
<td>In Person Learning</td>
<td>Tue Thu 11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PSYC 314-004</td>
<td>Health Psychology</td>
<td>W2</td>
<td></td>
<td>314 992</td>
<td>In Person Learning</td>
<td>Tue Thu 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC 314-005</td>
<td>Health Psychology</td>
<td>W1</td>
<td></td>
<td>314 992</td>
<td>In Person Learning</td>
<td>Thu 6:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>PSYC 314-006</td>
<td>Health Psychology</td>
<td>W2</td>
<td></td>
<td>314 992</td>
<td>Online Learning</td>
<td>Arranged 4:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PSYC 315-001</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
<td></td>
<td>315 992</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>PSYC 315-002</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
<td></td>
<td>315 992</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PSYC 315-004</td>
<td>Childhood and Adolescence</td>
<td>W2</td>
<td></td>
<td>315 992</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PSYC 315-005</td>
<td>Childhood and Adolescence</td>
<td>W2</td>
<td></td>
<td>315 992</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>PSYC 315-011</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
<td></td>
<td>315 992</td>
<td>In Person Learning</td>
<td>Mon Wed Fri 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>PSYC 315-012</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
<td></td>
<td>315 992</td>
<td>Online Learning</td>
<td>Arranged 4:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>PSYC 315-091</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
<td></td>
<td>315 992</td>
<td>Online Learning</td>
<td>Arranged 4:00 p.m. - 5:30 p.m.</td>
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<tr>
<td>PSYC 315-092</td>
<td>Childhood and Adolescence</td>
<td>W2</td>
<td></td>
<td>315 992</td>
<td>Online Learning</td>
<td>Arranged 4:00 p.m. - 5:30 p.m.</td>
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</tbody>
</table>

**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.

**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.

**Methods for coping with stress; impact of chronic illness on the family; social support systems:**

- 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.

**Health-related behaviours such as smoking and drug use; effects of stressful events on health:**

- 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.

**Health-related behaviours such as smoking and drug use; effects of stressful events on health:**

- 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.
Applied Developmental Psychology

Adulthood and Aging

Mon Wed Fri

W1

11:00 a.m. - 12:00 p.m.

3:30 p.m. - 5:00 p.m.

Online Learning

Arranged

Adulthood and Aging

Mon Wed Fri

In Person Learning

Arranged

PSYC 335-001

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 301 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

Psychology of Sex Differences

Adulthood and Aging

Mon Wed Fri

Online Learning

Arranged

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.

Memory: Historical, Clinical and Cognitive Perspectives

Adulthood and Aging

Mon Wed Fri

Online Learning

Arranged

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.

Memory: Historical, Clinical and Cognitive Perspectives

Adulthood and Aging

Mon Wed Fri

Online Learning

Arranged

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.

Memory: Historical, Clinical and Cognitive Perspectives

Adulthood and Aging

Mon Wed Fri

Online Learning

Arranged

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.

Memory: Historical, Clinical and Cognitive Perspectives

Adulthood and Aging

Mon Wed Fri

Online Learning

Arranged

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type</th>
<th>Name</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 336-001</td>
<td>PSYC</td>
<td>The Psychology of Language I</td>
<td>W2</td>
<td>12:00 p.m. - 1:30 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.</td>
</tr>
<tr>
<td>PSYC 336-101</td>
<td>PSYC</td>
<td>The Psychology of Language I</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.</td>
</tr>
<tr>
<td>PSYC 336-601</td>
<td>PSYC</td>
<td>The Psychology of Language I</td>
<td>W2</td>
<td>4:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.</td>
</tr>
<tr>
<td>PSYC 340-302</td>
<td>PSYC</td>
<td>Directed Studies in Psychology</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 340-702</td>
<td>PSYC</td>
<td>Directed Studies in Psychology</td>
<td>W1-2</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 349-001</td>
<td>PSYC</td>
<td>Honours Seminar</td>
<td>W1-2</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 349-202</td>
<td>PSYC</td>
<td>Honours Seminar</td>
<td>W1-2</td>
<td>5:00 p.m. - 7:30 p.m.</td>
<td>Hybrid Learning</td>
<td>Tue</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 350-001</td>
<td>PSYC</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 350-002</td>
<td>PSYC</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 350-001</td>
<td>PSYC</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W1</td>
<td>5:00 p.m. - 7:30 p.m.</td>
<td>Hybrid Learning</td>
<td>Tue</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 350-002</td>
<td>PSYC</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W1</td>
<td>5:00 p.m. - 7:30 p.m.</td>
<td>Hybrid Learning</td>
<td>Tue</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 358-001</td>
<td>PSYC</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 358-002</td>
<td>PSYC</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>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.</td>
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<tr>
<td>PSYC 358-003</td>
<td>PSYC</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 358-004</td>
<td>PSYC</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
</tr>
<tr>
<td>PSYC 358-001</td>
<td>PSYC</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td>5:00 p.m. - 7:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
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<tr>
<td>PSYC 358-002</td>
<td>PSYC</td>
<td>Evolutionary Psychology</td>
<td>W2</td>
<td>5:00 p.m. - 7:30 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>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.</td>
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<tr>
<td>PSYC 358-001</td>
<td>PSYC</td>
<td>Advanced Research Methods in Behavioural Sciences</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Experimental analysis of human, animal, and reproductive systems in contemporary settings; critical skills necessary for cognitive systems. Restricted to students with second-year standing or higher.</td>
</tr>
<tr>
<td>PSYC 361-001</td>
<td>PSYC</td>
<td>Neuroscience of Motivation</td>
<td>W1</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>Introduction to basic theories of non-associative learning, classical and operant conditioning. Experimental findings from developmental and biological analyses with animals and humans. Restricted to students with second-year standing or higher.</td>
</tr>
<tr>
<td>PSYC 363-001</td>
<td>PSYC</td>
<td>Neuroscience of Simple Learning</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>Introduction to basic theories of non-associative learning, classical and operant conditioning. Experimental findings from developmental and biological analyses with animals and humans. Restricted to students with second-year standing or higher.</td>
</tr>
</tbody>
</table>
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 PSYC 260, BIOC 260, BIOC 261, BIOC 545, BIOC 546, NSCI 201, PSYC 270, PSYC 271.

**PSYC_V 365-001** Cognitive Neuroscience

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 371, PSYC 373, PSYC 375. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: Either (a) one of PSYC 260, PSYC 270, NSCI 201, PSYC 365 or PSYC 370.

**PSYC_V 365-002** Cognitive Neuroscience

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 371, PSYC 373, PSYC 375. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: Either (a) one of PSYC 260, PSYC 270, NSCI 201, PSYC 365 or PSYC 370.

**PSYC_V 367-001** Sensory Systems

- Credit worth 3 credits. Credit will be granted for only one of PSYC 367, BIOC 261, PSYC 371. Restricted to students with second-year standing or higher.
- Prerequisite: Either (a) one of PSYC 101, NSCI 201 or (b) PSYC 365.

**PSYC_V 368-001** Perceptual Processing

- Credit worth 3 credits. Credit will be granted for only one of PSYC 304, PSYC 370, BIOC 371, BIOC 373. A maximum of 6 credits can be granted for either PSYC 264 or PSYC 270 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: One of NSCI 201, PSYC 270, COGS 260 and one of PSYC 217, PSYC 277 and one of PSYC 216, PSYC 276.

**PSYC_V 370-001** Behavioural and Cognitive Neuroscience I

- Credit worth 3 credits. Credit will be granted for only one of PSYC 370, PSYC 371, PSYC 373. A maximum of 6 credits can be granted for either PSYC 264 or PSYC 270 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: PSYC 217, PSYC 277.

**PSYC_V 371-002** Behavioural and Cognitive Neuroscience II

- Credit worth 3 credits. Credit will be granted for only one of PSYC 370, PSYC 371, PSYC 373. A maximum of 6 credits can be granted for either PSYC 264 or PSYC 270 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: PSYC 217, PSYC 277.

**PSYC_V 388-B-002** Directed Studies in Behavioural Neuroscience

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 370, BIOC 371, BIOC 373. A maximum of 6 credits can be granted for either PSYC 264 or PSYC 270 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: Either (a) one of PSYC 260, PSYC 270, NSCI 201, PSYC 365 or PSYC 370.

**PSYC_V 388-C-003** Directed Studies in Behavioural Neuroscience

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 370, BIOC 371, BIOC 373. A maximum of 6 credits can be granted for either PSYC 264 or PSYC 270 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: Either (a) one of PSYC 260, PSYC 270, NSCI 201, PSYC 365 or PSYC 370.

**PSYC_V 388-E-001** Directed Studies in Behavioural Neuroscience

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 370, BIOC 371, BIOC 373. A maximum of 6 credits can be granted for either PSYC 264 or PSYC 270 and 371. Restricted to students in NSCI Major or Honours with second-year standing or higher.
- Prerequisite: One of NSCI 201, PSYC 270, COGS 260 and one of PSYC 217, PSYC 277 and one of PSYC 216, PSYC 276.

**PSYC_V 401-001** Clinical Psychology

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 370, PSYC 371. Restricted to students with third-year standing or higher.
- Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 365, PSYC 371, PSYC 388, PSYC 380.

**PSYC_V 401-002** Clinical Psychology

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 370, PSYC 371. Restricted to students with third-year standing or higher.
- Prerequisite: PSYC 217, PSYC 277 and PSYC 300.

**PSYC_V 404-001** Psychology of Religion

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 370, PSYC 371. Restricted to students with third-year standing or higher.
- Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 365, PSYC 371, PSYC 388, PSYC 380.

**PSYC_V 404-002** Psychology of Religion

- Credit worth 3 credits. Credit will be granted for only one of PSYC 365, PSYC 370, PSYC 371. Restricted to students with third-year standing or higher.
- Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 365, PSYC 371, PSYC 388, PSYC 380.
In Person Learning

404 003 Psychology of Religion

W2

Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religious 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 315, PSYC 358.

In Person Learning

404 004 Psychology of Religion

W2

Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religious 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 315, PSYC 358.

In Person Learning

408 001 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, autobiographical awareness, moral reasoning, emotion, theory of mind, and social awareness. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 306, PSYC 307, PSYC 319, PSYC 320, PSYC 325.

In Person Learning

408 002 Cognitive Neuropsychology

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 307, PSYC 315, PSYC 319, PSYC 320, PSYC 325.

Online Learning

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 307, PSYC 315, PSYC 319, PSYC 320, PSYC 325.

Online Learning

413 002 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 307, PSYC 315, PSYC 319, PSYC 320, PSYC 325.

Online Learning

421 001 Environmental Psychology

W2

Experimental findings and theory documenting the plasticity of the brain and its relationship to learning and experience. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 304, PSYC 306, PSYC 307, PSYC 315, PSYC 358.

In Person Learning

440 A 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.

In Person Learning

440 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.

In Person Learning

440 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.

In Person Learning

449 A 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 369.

In Person Learning

449 B 001 Honours Seminar and Essay

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 students in Honours Psychology, in fourth-year standing or higher. Prerequisite: PSYC 369.

In Person Learning

449 C 002 Honours Seminar and Essay

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 students in Honours Psychology, in fourth-year standing or higher. Prerequisite: PSYC 369.

In Person Learning

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 317.

In Person Learning

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 317.

In Person Learning

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 317.

In Person Learning

460 002 Behavioural Neuroendocrinology

W1

Experimental exploration 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 317.

In Person Learning

460 001 Behavioural Neuroendocrinology

W1

Experimental exploration 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 317.

In Person Learning
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<tr>
<th>Course Code</th>
<th>Title</th>
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<th>Tu Thu</th>
<th>9:30 a.m. - 11:00 a.m.</th>
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<tr>
<td>PSYC_V 491-001</td>
<td>Neuroplasticity and Behaviour</td>
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<td>PSYC_V 462-001</td>
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**Notes:**
- Some courses are eligible for Credit/D/Fail grading.
- Restricted to students in one of MA PSYC, MSc NRSC, PhD PSYC, PhD NRSC. This course is not eligible for Credit/D/Fail grading.
- Prerequisite: One of PSYC 304, PSYC 297.
- In Person Learning: Mon Wed Fri 2:00 p.m. - 2:30 p.m.
<p>| 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 | 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 | 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 | 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 | 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 | 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 | 535 | 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 | 536 | 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 | 537 | 001 | Clinical Neuropsychological Assessment | 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 | 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 | 539 | 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 | 540 | 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 | 541 | 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 | 542 | 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 | 543 | 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 | 544 | 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 | 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 | R | R_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 | 547 | 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 | 548 | 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 | 549 | L | L_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 |</p>
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<tr>
<th>Course Code</th>
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<th>Type</th>
<th>Credit Hours</th>
<th>Notes</th>
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<td>PSYC_V 546-Y_001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>571</td>
<td>Restricted to students in one of MA-PSYC, PhD-PSYC. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PSYC_V 546-Y_001</td>
<td>Directed Studies</td>
<td>W2</td>
<td>571</td>
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<td>PSYC_V 547-E_001</td>
<td>Resolving and Conference</td>
<td>W1</td>
<td>549</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>PSYC_V 547-E_001</td>
<td>Resolving and Conference</td>
<td>W2</td>
<td>549</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>PSYC_V 549-001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>546</td>
<td>Restricted to students in MA-PSYC. This course is not eligible for Credit/D/Fail grading. In Person Learning.</td>
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<tr>
<td>PSYC_V 549-002</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>546</td>
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<tr>
<td>PSYC_V 549-003</td>
<td>Master's Thesis</td>
<td>W2</td>
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<td>PSYC_V 556-001</td>
<td>Psychological Treatment of Childhood Disorders</td>
<td>W2</td>
<td>546</td>
<td>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.</td>
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<tr>
<td>PSYC_V 559-A_001</td>
<td>Clinical Psychological Internship</td>
<td>W1-2</td>
<td>549</td>
<td>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.</td>
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<tr>
<td>PSYC_V 560-001</td>
<td>Clinical Research Design</td>
<td>W2</td>
<td>549</td>
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<tr>
<td>PSYC_V 569-001</td>
<td>Contemporary Conceptual Issues in Personality</td>
<td>W1</td>
<td>549</td>
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<tr>
<td>PSYC_V 571-A_001</td>
<td>Special Topics in Cognitive Neuroscience</td>
<td>W1</td>
<td>547</td>
<td>Restricted to students in one of MA-PSYC, PhD-PSYC. This course is not eligible for Credit/D/Fail grading. In Person Learning.</td>
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<td>Special Topics in Cognitive Neuroscience</td>
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<td>PSYC_V 571-B_001</td>
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<td>PSYC_V 582-A_001</td>
<td>Cognition</td>
<td>W1</td>
<td>546</td>
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<tr>
<td>PSYC_V 585-A_001</td>
<td>Special Topics in Developmental Cognitive Neuroscience</td>
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<td>PSYC_V 590-001</td>
<td>Survey of Social Psychology</td>
<td>W2</td>
<td>546</td>
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<td>PSVT_V 550-A_001</td>
<td>Directed Studies</td>
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<td>550</td>
<td>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.</td>
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<td>PSVT_V 550-A_002</td>
<td>Directed Studies</td>
<td>W2</td>
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<td>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.</td>
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<td>PUNJ_V 200-001</td>
<td>Introductory Punjabi</td>
<td>102</td>
<td>001</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>102</td>
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<td>PUNJ_V 200-004</td>
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<td>206</td>
<td>002</td>
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<td>RADS_V 301-001</td>
<td>Exploring Imaging in the Twenty-First Century</td>
<td>301</td>
<td>001</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>RES_V 469-001</td>
<td>Doctoral Dissertation</td>
<td>649</td>
<td>001</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>002</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>RES_V 469-003</td>
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<td>649</td>
<td>003</td>
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<td>RES_V 500-001</td>
<td>Resource and Environmental Workshop</td>
<td>500</td>
<td>B 0101</td>
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<td>Master’s Seminar on Resources and Environment</td>
<td>502</td>
<td>0101</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>RES_V 504-001</td>
<td>Survey Design in Interdisciplinary Environmental Social Science</td>
<td>504</td>
<td>0101</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>RES_V 506-001</td>
<td>Qualitative Methods in Interdisciplinary Contexts</td>
<td>506</td>
<td>0201</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>RES_V 507-001</td>
<td>Human Technological Systems</td>
<td>507</td>
<td>0201</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>RES_V 508-001</td>
<td>Ecosystem Services</td>
<td>508</td>
<td>0202</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>RES_V 509-001</td>
<td>Advanced Conservation Science</td>
<td>509</td>
<td>0202</td>
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<tr>
<td>RES_V 510-101</td>
<td>RES_V</td>
<td>Social Ecological Systems</td>
<td>2-3-0</td>
<td>Mon-Wed</td>
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<tr>
<td>RES_V 520-101</td>
<td>RES_V</td>
<td>Climate Change: Science, Technology and Sustainable Development</td>
<td>4-5-0</td>
<td>Mon-Wed</td>
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<td>RES_V</td>
<td>Master's Thesis</td>
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<td>RES_V</td>
<td>Master's Thesis</td>
<td>0-1-0</td>
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<td>RES_V 599-201</td>
<td>RES_V</td>
<td>Master's Thesis</td>
<td>0-1-0</td>
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<tr>
<td>RES_V 500-201</td>
<td>RES_V</td>
<td>Doctoral Dissertation</td>
<td>0-0-0</td>
<td>Arranged</td>
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<tr>
<td>RES_V 500-301</td>
<td>RES_V</td>
<td>Elements of Neuroanatomy and Neurophysiology</td>
<td>2-3-0</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>RES_V 501-001</td>
<td>RES_V</td>
<td>Evidence for Practice</td>
<td>0-0-0</td>
<td>Online Learning</td>
</tr>
<tr>
<td>RES_V 501-101</td>
<td>RES_V</td>
<td>Evidence for Practice</td>
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<td>Online Learning</td>
</tr>
<tr>
<td>RES_V 501-201</td>
<td>RES_V</td>
<td>Evidence for Practice</td>
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<td>Online Learning</td>
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<tr>
<td>RES_V 502-001</td>
<td>RES_V</td>
<td>Rehabilitation Theory</td>
<td>2-3-0</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>RES_V 503-001</td>
<td>RES_V</td>
<td>Reasoning and Decision-Making</td>
<td>2-3-0</td>
<td>Online Learning</td>
</tr>
<tr>
<td>Course Code</td>
<td>Session</td>
<td>Delivery</td>
<td>Title</td>
<td>Description</td>
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<tr>
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</tr>
<tr>
<td>RHSC 501-007</td>
<td>W2</td>
<td>Online Learning</td>
<td>Direct Studies in Rehabilitation</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501.</td>
</tr>
<tr>
<td>RHSC 501-008</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Directed Studies in Rehabilitation</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>RHSC 501-009</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Directed Studies in Rehabilitation</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>RHSC 501-010</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Current Topics in Rehabilitation</td>
<td>This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>RHSC 501-011</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Measurement for Assessment, Planning, and Evaluation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-012</td>
<td>W2</td>
<td>Online Learning</td>
<td>Measurement for Assessment, Planning, and Evaluation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-013</td>
<td>W1</td>
<td>Arranged</td>
<td>Developing Effective Rehabilitation Programs</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-014</td>
<td>W2</td>
<td>Arranged</td>
<td>Developing Effective Rehabilitation Programs</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-015</td>
<td>W1</td>
<td>Arranged</td>
<td>Research Proposal</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501.</td>
</tr>
<tr>
<td>RHSC 501-016</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Research Proposal</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501.</td>
</tr>
<tr>
<td>RHSC 501-017</td>
<td>W1</td>
<td>Arranged</td>
<td>Facilitating Learning in Rehabilitation Contexts</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-018</td>
<td>W2</td>
<td>Online Learning</td>
<td>Facilitating Learning in Rehabilitation Contexts</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-019</td>
<td>W1</td>
<td>Arranged</td>
<td>Society and Human Occupation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-020</td>
<td>W2</td>
<td>Online Learning</td>
<td>Society and Human Occupation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-021</td>
<td>W1</td>
<td>Arranged</td>
<td>Community and Human Occupation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-022</td>
<td>W2</td>
<td>Online Learning</td>
<td>Community and Human Occupation</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-023</td>
<td>W1</td>
<td>Arranged</td>
<td>Research in Health and Chronic Conditions</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>RHSC 501-024</td>
<td>W2</td>
<td>Online Learning</td>
<td>Research in Health and Chronic Conditions</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-025</td>
<td>W1</td>
<td>Arranged</td>
<td>Research Proposal</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501.</td>
</tr>
<tr>
<td>RHSC 501-026</td>
<td>W2</td>
<td>Online Learning</td>
<td>Research Proposal</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501.</td>
</tr>
<tr>
<td>RHSC 501-027</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Randomized Intervention Trials in Rehabilitation</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501 or equivalent graduate or senior undergraduate course (900-400 level) on general quantitative and qualitative research methods.</td>
</tr>
<tr>
<td>RHSC 501-028</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Randomized Intervention Trials in Rehabilitation</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: RHSC 501 or equivalent graduate or senior undergraduate course (900-400 level) on general quantitative and qualitative research methods.</td>
</tr>
<tr>
<td>RHSC 501-029</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-030</td>
<td>W1</td>
<td>In Person Learning</td>
<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-031</td>
<td>W2</td>
<td>In Person Learning</td>
<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-032</td>
<td>W1</td>
<td>In Person Learning</td>
<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-033</td>
<td>W2</td>
<td>In Person Learning</td>
<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-034</td>
<td>W1</td>
<td>Online Learning</td>
<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-035</td>
<td>W2</td>
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<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-036</td>
<td>W1</td>
<td>Arranged</td>
<td>M.Sr. Thesis</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>RHSC 501-037</td>
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<tr>
<td>Code</td>
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<td>Section</td>
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<td>Delivery</td>
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<tr>
<td>RHSC_V</td>
<td>583-022</td>
<td>B_022</td>
<td>Applying Research to Practice</td>
<td>W2</td>
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<tr>
<td>RHSC_V</td>
<td>583-025</td>
<td>B_025</td>
<td>Applying Research to Practice</td>
<td>W2</td>
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<tr>
<td>RHSC_V</td>
<td>583-026</td>
<td>B_026</td>
<td>Applying Research to Practice</td>
<td>W2</td>
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<tr>
<td>RHSC_V</td>
<td>583-C_022</td>
<td>C_022</td>
<td>Applying Research to Practice</td>
<td>W2</td>
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<td>RHSC_V</td>
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<td>Applying Research to Practice</td>
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<td>RHSC_V</td>
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<td>D_022</td>
<td>Applying Research to Practice</td>
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<td>Applying Research to Practice</td>
<td>W2</td>
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<tr>
<td>RHSC_V</td>
<td>585-006</td>
<td>006</td>
<td>Directed Studies</td>
<td>W2</td>
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<tr>
<td>RHSC_V</td>
<td>587-006</td>
<td>006</td>
<td>Major Project, Part 1</td>
<td>W2</td>
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<tr>
<td>RHSC_V</td>
<td>591-001</td>
<td>001</td>
<td>Leadership in Rehabilitation</td>
<td>W1</td>
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<tr>
<td>RHSC_V</td>
<td>599-001</td>
<td>001</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
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<tr>
<td>RHSC_V</td>
<td>599-002</td>
<td>002</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
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<td>RHSC_V</td>
<td>599-003</td>
<td>003</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
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<tr>
<td>RMTST_V</td>
<td>200-101</td>
<td>101</td>
<td>Introduction to Romance Cultures</td>
<td>W1</td>
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<tr>
<td>RMTST_V</td>
<td>201-101</td>
<td>101</td>
<td>Introduction to Literatures and Cultures of the Romance World I: Medieval to Early Modern</td>
<td>W1</td>
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<tr>
<td>RMTST_V</td>
<td>201-001</td>
<td>001</td>
<td>Introduction to Literatures and Cultures of the Romance World I: Medieval to Early Modern</td>
<td>W1</td>
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<tr>
<td>RMTST_V</td>
<td>202-101</td>
<td>101</td>
<td>Introduction to Literatures and Cultures of the Romance World I: Modern to Postmodern</td>
<td>W1</td>
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<tr>
<td>RMTST_V</td>
<td>203-101</td>
<td>201</td>
<td>Introduction to Literatures and Cultures of the Romance World II: Modern to Postmodern</td>
<td>W2</td>
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<tr>
<td>RMTST_V</td>
<td>203-010</td>
<td>010</td>
<td>Introduction to Literatures and Cultures of the Romance World II: Modern to Postmodern</td>
<td>W3</td>
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<tr>
<td>RMTST_V</td>
<td>204-101</td>
<td>101</td>
<td>Introduction to the Analysis of Portuguese and Brazilian Cultures</td>
<td>W1</td>
</tr>
<tr>
<td>RMTST_V</td>
<td>205-101</td>
<td>101</td>
<td>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 RMTST 260.</td>
<td>W1</td>
</tr>
<tr>
<td>RMTST_V</td>
<td>206-101</td>
<td>101</td>
<td>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 RMTST 260. Equivalency: PORT 222.</td>
<td>W1</td>
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<tr>
<td>RMTST_V</td>
<td>206-201</td>
<td>201</td>
<td>Introduction to the Analysis of Portuguese and Brazilian Cultures</td>
<td>W1</td>
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</tbody>
</table>
Topics in Modern and Contemporary Italian Literature and Culture

Basic Russian II
In Person Learning
101
Tue Thu
The Caribbean: Frontiers of the Romance World
345
201
W2
In Person Learning
W2
W1
Mon Wed
400
280
Tue Thu
Second-Year Russian II
101
9:30 a.m. - 11:00 a.m.
Mon Wed
280
W1
Continuation of RUSS 101.
In Person Learning
302
RUSS_V
1:00 p.m. - 2:00 p.m.
102
2:00 p.m. - 3:30 p.m.
202
In Person Learning

Introduction to Romance Language Cinema
350
RUSS_V
Prose Fiction and Non-Fiction of the Romance World
101
Basic Russian I
11:00 a.m. - 12:30 p.m.
Mon Wed
280
W1
Continuation of RUSS 101.
In Person Learning
419
Studies in Portuguese and Brazilian Literature
201
Mon Wed Fri
In Person Learning
101
Studies in Romance Languages and Literature
201
Mon Wed
459
Mon Wed
201
RUSS_V
9:30 a.m. - 11:00 a.m.
RUSS_V
Arranged
Basic Russian I
W1
RUSS_V
2:00 p.m. - 3:30 p.m.
101
5:00 p.m. - 6:30 p.m.
Wed Fri
321
B_201
101
Romance Linguistics
Special Topics in Italian Studies
Mon Wed
101
201
In Person Learning
Wed Fri
In Person Learning
361
Multi-access Learning
W2
452
201
Afterlife of the Text: Rewritings and Adaptations
W2
In Person Learning
Mon Wed
9:30 a.m. - 11:00 a.m.

RMST_V 305-101
RMST_V 305
101
Introduction to Romanian 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 ITST 352. Equivalency: RMST 234
In Person Learning
Mon Wed
10:00 a.m. - 12:00 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 RMST_V 322. Equivalency: MOLD_V 401.
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, sport, politics, cinema, and architecture. 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 355-201
RMST_V 355
B_B_201
W2
Special Topics in Italian Studies
Study of Italian literature, 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 302 or RMST 361. Equivalency: PORT 302.
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, sociolinguistics of spoken and written Romance languages. Credit will be granted for only one of RMST 400 or RMST 466. Prerequisite: 2nd-year standing. A strong knowledge of at least one of the Romance languages is highly recommended.
In Person Learning
Tue Thu
11:00 a.m. - 12:00 p.m.

RMST_V 403-101
RMST_V 403
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 Backgrounds
W1
Films with English subtitles. Course content will vary. Credit will be granted for only one of RMST 452, ITST 452 or RMST 466. Equivalency: ITST 466 or ITST 452.
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 453 or ITAL 466. Equivalency: ITAL 466, ITST 453
In Person Learning
Tue Thu
11:00 a.m. - 12:30 p.m.

RMST_V 459-101
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 459 or ITAL 466. Recommended pre-requisite: Second-year standing or higher. Equivalency: ITAL 466, ITST 459
In Person Learning
Tue Thu
3:30 p.m. - 5:00 p.m.

RUS_V 101-101
RUS_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.

RUS_V 101-102
RUS_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. - 2:30 p.m.

RUS_V 101-103
RUS_V 101
103
Basic Russian I
W1
Introduction to contemporary Russian. Oral practice, grammar, reading, and writing.
Multi-access Learning
Mon Wed Fri
2:00 p.m. - 3:30 p.m.

RUS_V 102-201
RUS_V 102
102
Basic Russian II
W2
Continuation of RUS_V 101.
Online Learning
Mon Wed
5:00 p.m. - 6:30 p.m.

RUS_V 102-202
RUS_V 102
102
Basic Russian II
W2
Continuation of RUS_V 101.
In Person Learning
Mon Wed
5:00 p.m. - 6:30 p.m.

RUS_V 201-101
RUS_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 RUS_V 201 or RUS_V 202. Recommended pre-requisite: one of RUS_V 101, RUS_V 102.
Multi-access Learning
Mon Wed
11:00 a.m. - 12:00 p.m.

RUS_V 202-201
RUS_V 202
201
Second-Year Russian II
W2
A continuation of RUS_V 201. Intermediate oral practice, grammar, reading, composition. A special section may be provided for Science students. Credit will be granted for only one of RUS_V 201 or RUS_V 202. Recommended pre-requisite: RUS_V 201.
Online Learning
Tue Thu
5:00 p.m. - 6:30 p.m.
This course is not eligible for Credit/D/Fail grading. [3-0-0]
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]
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In Person Learning Mon Wed Fri

10:00 a.m. - 11:00 a.m.
First-Year Seminar in Science 13J
In Person Learning
12:00 p.m. - 1:00 p.m.
Mon Wed Fri
First-Year Seminar in Science
First-Year Seminar in Science
13L
113
W1
First-Year Seminar in Science
1:00 p.m. - 2:00 p.m.
Mon Wed Fri
First-Year Seminar in Science
In Person Learning
1:00 p.m. - 2:00 p.m.
W2
First-Year Seminar in Science
12:00 p.m. - 1:00 p.m.
Mon Wed Fri
First-Year Seminar in Science
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12:00 p.m. - 1:00 p.m.
W2
First-Year Seminar in Science
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Mon Wed Fri
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Mon Wed Fri
First-Year Seminar in Science
In Person Learning
12:00 p.m. - 1:00 p.m.
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### First-Year Seminar in Science

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<td>SCIE_V 500-101</td>
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**Communicating Science**

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**Introduction to Russian and Slavic Culture**

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**Introduction to Sociology**

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<td>SOCI 100-104</td>
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Credit will be granted for only one of SOCI 101 or SOCI 100.
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SOCI 102-811  SD2_V  102  B11  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 102-812  SD2_V  102  B12  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  10:00 a.m. - 11:00 a.m.
SOCI 102-817  SD2_V  102  B17  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  10:00 a.m. - 11:00 a.m.
SOCI 102-821  SD2_V  102  B21  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  Wed  11:00 a.m. - 12:00 p.m.
SOCI 102-824  SD2_V  102  B24  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  Wed  11:00 a.m. - 12:00 p.m.
SOCI 102-C11  SD2_V  102  C11  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  Thu  11:00 a.m. - 12:00 p.m.
SOCI 102-C12  SD2_V  102  C12  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  Thu  11:00 a.m. - 12:00 p.m.
SOCI 102-C17  SD2_V  102  C17  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  Mon  11:00 a.m. - 12:00 p.m.
SOCI 102-C1A  SD2_V  102  C1A  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 102-C1B  SD2_V  102  C1B  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  4:00 p.m. - 5:00 p.m.
SOCI 102-C1C  SD2_V  102  C1C  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  Thu  1:00 p.m. - 2:00 p.m.
SOCI 102-C1D  SD2_V  102  C1D  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  Thu  4:00 p.m. - 5:00 p.m.
SOCI 102-C21  SD2_V  102  C21  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  11:00 a.m. - 12:00 p.m.
SOCI 102-C24  SD2_V  102  C24  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  Wed  2:00 p.m. - 3:00 p.m.
SOCI 102-CAP  SD2_V  102  CAP  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 Thu  2:00 p.m. - 3:30 p.m.
SOCI 102-D11  SD2_V  102  D11  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  Thu  4:00 p.m. - 5:00 p.m.
SOCI 102-D12  SD2_V  102  D12  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  Thu  4:00 p.m. - 5:00 p.m.
SOCI 102-D17  SD2_V  102  D17  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  10:00 a.m. - 11:00 a.m.
SOCI 102-D21  SD2_V  102  D21  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  11:00 a.m. - 12:00 p.m.
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This table includes the following courses:

- Inequality and Social Change
- Institutions
- Social Structure
- Social Change

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<td>Mon Wed Fri</td>
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<tr>
<td>SOCI 290-203</td>
<td>Global Pandemics</td>
<td>W2</td>
<td>In Person Learning</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>SOCI 301-101</td>
<td>Sociology of Development and Underdevelopment</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>SOCI 302-104</td>
<td>Ethics and Racial Inequality</td>
<td>W1</td>
<td>In Person Learning</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>SOCI 310-201</td>
<td>Diversity in Family Forms</td>
<td>W1</td>
<td>In Person Learning</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>SOCI 310-101</td>
<td>Sociology of Migrations</td>
<td>W1</td>
<td>In Person Learning</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>SOCI 312-102</td>
<td>Gender Relations</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>SOCI 314-201</td>
<td>Sociology of Sexuality</td>
<td>W2</td>
<td>In Person Learning</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>SOCI 320-101</td>
<td>Diversity in Family Forms</td>
<td>W1</td>
<td>In Person Learning</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>SOCI 320-201</td>
<td>Diversity in Family Forms</td>
<td>W2</td>
<td>In Person Learning</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>SOCI 330-101</td>
<td>Social Statistics I</td>
<td>W1</td>
<td>In Person Learning</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<td>SOCI 330-201</td>
<td>Social Statistics I</td>
<td>W2</td>
<td>In Person Learning</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>SOCI 330-202</td>
<td>Social Statistics I</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>SOCI 340-103</td>
<td>Consumers and Consumption</td>
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<td>SOCI 340-201</td>
<td>Consumers and Consumption</td>
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<td>SOCI 348-101</td>
<td>Sociology of Aging</td>
<td>W1</td>
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<td>SOCI 352-101</td>
<td>Work and Inequality</td>
<td>W1</td>
<td>Online Learning</td>
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<td>Work and Inequality</td>
<td>Work and Inequality W2</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning Tu-Th</td>
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<tr>
<td>SOCI 354-201</td>
<td>Community Studies</td>
<td>Community Studies W2</td>
<td>Mon Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning Tu-Th</td>
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<tr>
<td>SOCI 354-202</td>
<td>Community Studies</td>
<td>Community Studies W2</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning Tu-Th</td>
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<td>SOCI 360-101</td>
<td>Sociology and Natural Resources</td>
<td>Sociology and Natural Resources W1</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>SOCI 360-202</td>
<td>Sociology and Natural Resources</td>
<td>Sociology and Natural Resources W2</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 361-101</td>
<td>Social Inequality</td>
<td>Social Inequality W1</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 366-201</td>
<td>Built Environments</td>
<td>Built Environments W2</td>
<td>Mon Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 369-102</td>
<td>Sociology of Sexualities</td>
<td>Sociology of Sexualities W1</td>
<td>Mon Wed</td>
<td>6:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>SOCI 369-203</td>
<td>Sociology of Sexualities</td>
<td>Sociology of Sexualities W2</td>
<td>Mon Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning Tue</td>
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<tr>
<td>SOCI 370-101</td>
<td>Sociological Theories: Classical and Contemporary Approaches</td>
<td>Sociological Theories: Classical and Contemporary Approaches W1-2</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 371-101</td>
<td>Classical Traditions in Theory</td>
<td>Classical Traditions in Theory W1</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 371-201</td>
<td>Classical Traditions in Theory</td>
<td>Classical Traditions in Theory W2</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<td>SOCI 372-101</td>
<td>Contemporary Directions in Theory</td>
<td>Contemporary Directions in Theory W1</td>
<td>Mon Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<td>SOCI 372-201</td>
<td>Contemporary Directions in Theory</td>
<td>Contemporary Directions in Theory W2</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<td>SOCI 380-201</td>
<td>Sociological Methods: Survey Research</td>
<td>Sociological Methods: Survey Research W2</td>
<td>Mon Wed</td>
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<tr>
<td>SOCI 382-101</td>
<td>Sociological Methods: Qualitative Research</td>
<td>Sociological Methods: Qualitative Research W1</td>
<td>Mon Wed</td>
<td>Arranged</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>SOCI 382-201</td>
<td>Sociological Methods: Qualitative Research</td>
<td>Sociological Methods: Qualitative Research W2</td>
<td>Mon Wed</td>
<td>Arranged</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>SOCI 388-101</td>
<td>Sociology of Health and Illness</td>
<td>Sociology of Health and Illness W1</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 388-201</td>
<td>Sociology of Health and Illness</td>
<td>Sociology of Health and Illness W2</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<td>SOCI 387-101</td>
<td>Drugs and Society</td>
<td>Drugs and Society W1</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 387-201</td>
<td>Drugs and Society</td>
<td>Drugs and Society W2</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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<tr>
<td>SOCI 416-101</td>
<td>Feminist Theory</td>
<td>Feminist Theory W1</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning Mon-Wed</td>
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</table>

**Course Descriptions**

- **Work and Inequality**: 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.
- **Community Studies**: 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.
- **Community Studies**: 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.
- **Social Inequality**: 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.
<table>
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<th>Course Title</th>
<th>Course Type</th>
<th>Days</th>
<th>Time</th>
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<td>SOCI 442-201</td>
<td>Feminist Theory</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>SOCI 442-203</td>
<td>Theories of Family and Kinship</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>SOCI 441-201</td>
<td>Social Statistics II</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>SOCI 441-202</td>
<td>Sociology of the Environment</td>
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<td>W2</td>
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<td>SOCI 440-201</td>
<td>Sociology of the Environment</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>SOCI V 466</td>
<td>201</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Sociology of Education</td>
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<tr>
<td>SOCI V 490</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Contemporary Chinese Society</td>
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<td>SOCI V 495 A</td>
<td>201</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Advanced Studies in Sociology</td>
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<tr>
<td>SOCI V 495 B</td>
<td>201</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Advanced Studies in Sociology</td>
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<tr>
<td>SOCI V 495 C</td>
<td>201</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Advanced Studies in Sociology</td>
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<tr>
<td>SOCI V 501</td>
<td>201</td>
<td>Wed</td>
<td>10:00 a.m. - 1:00 p.m.</td>
<td>Contemporary Sociological Theory</td>
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<tr>
<td>SOCI V 503</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Research and Techniques (Quantitative)</td>
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<tr>
<td>SOCI V 503</td>
<td>101</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Research and Techniques (Qualitative)</td>
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<tr>
<td>SOCI V 514</td>
<td>201</td>
<td>Wed</td>
<td>10:00 a.m. - 1:00 p.m.</td>
<td>Analyzing Quantitative Data in Sociology</td>
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<td>SOCI V 515</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Qualitative Data Analysis in Sociology</td>
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<tr>
<td>SOCI V 515</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Qualitative Data Analysis in Sociology</td>
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<tr>
<td>SOCI V 549 A</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Master's Thesis</td>
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<td>SOCI V 549 B</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Master's Thesis</td>
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<tr>
<td>SOCI V 549 C</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Master's Thesis</td>
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<tr>
<td>SOCI V 558 A</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Directed Studies</td>
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<td>SOCI V 558 B</td>
<td>201</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
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<td>201</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
<td>Directed Studies</td>
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<td>SOCI V 558 A</td>
<td>201</td>
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<td>SOCI V 558 B</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Special Topics Seminar</td>
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<tr>
<td>SOCI V 558 C</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Special Topics Seminar</td>
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<td>SOCI V 599 D</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Special Topics Seminar</td>
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<td>SOCI V 599 H</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Special Topics Seminar</td>
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<tr>
<td>SOCI V 649</td>
<td>201</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>Doctoral Dissertation</td>
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</table>

Sociology graduate students. A background in material such as that covered in SOCI 502 is highly recommended for all others.

Current social topics in Chinese society; perspectives on gender, inequality, culture, and social relations. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.
This course is not eligible for Credit/D/Fail grading.

**Sociology:**

- **SOCI_V 649-301**
  - *Directed Studies*
  - Credit: 3.0
  - Days: W2
  - Time: In Person Learning
  - Arranged

- **SOCI_V 649-201**
  - *Directed Studies*
  - Credit: 3.0
  - Days: W1-2
  - Time: In Person Learning
  - Arranged

**Soil Science:**

- **SOIL_V 500-001**
  - *Graduate Seminar*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 500-002**
  - *Graduate Seminar*
  - Credit: 0.0
  - Days: W2
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 500-003**
  - *Graduate Seminar*
  - Credit: 0.0
  - Days: W1-2
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 501-001**
  - *Advanced Soil Processes*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - Mon - Wed
  - 11:00 a.m. - 12:00 p.m.

- **SOIL_V 501-002**
  - *Advanced Soil Processes*
  - Credit: 0.0
  - Days: W1-2
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 502-002**
  - *Advanced Sustainable Soil Management*
  - Credit: 0.0
  - Days: W2
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 503-001**
  - *Advanced Soil Sampling, Analysis and Data Interpretation*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 503-003**
  - *Advanced Soil Sampling, Analysis and Data Interpretation*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 503-101**
  - *Advanced Soil Sampling, Analysis and Data Interpretation*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 515-001**
  - *Watershed Science*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 516-001**
  - *Urban Watershed Management*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 517-001**
  - *Land and Water Resource Evaluation*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 530-B_001**
  - *Directed Studies*
  - Credit: 0.0
  - Days: B
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 530-B_002**
  - *Directed Studies*
  - Credit: 0.0
  - Days: B
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 530-B_003**
  - *Directed Studies*
  - Credit: 0.0
  - Days: B
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 530-D_001**
  - *Directed Studies*
  - Credit: 0.0
  - Days: D
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 530-D_002**
  - *Directed Studies*
  - Credit: 0.0
  - Days: D
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 530-D_003**
  - *Directed Studies*
  - Credit: 0.0
  - Days: D
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 549-C_001**
  - *Master's Thesis*
  - Credit: 0.0
  - Days: W1
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 549-C_002**
  - *Master's Thesis*
  - Credit: 0.0
  - Days: W2
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.

- **SOIL_V 549-C_003**
  - *Master's Thesis*
  - Credit: 0.0
  - Days: W1-2
  - Time: In Person Learning
  - This course is not eligible for Credit/D/Fail grading.
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<th>Course</th>
<th>Code</th>
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<th>Time</th>
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<td>649-001</td>
<td>Doctoral Dissertation</td>
<td>649</td>
<td>In Person Learning</td>
<td>W1</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>649-002</td>
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<td>649</td>
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<td>301</td>
<td>In Person Learning</td>
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<td>Interviewing Skills</td>
<td>310</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
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<td>Interviewing Skills</td>
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<td>Practicum I</td>
<td>315</td>
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<td>In Person Learning</td>
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<td>316-001</td>
<td>Integrative Seminar in Social Work Theory, Policy and Practice</td>
<td>316</td>
<td>In Person Learning</td>
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<td>2:00 p.m. - 5:00 p.m.</td>
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<td>Integrative Seminar in Social Work Theory, Policy and Practice</td>
<td>316</td>
<td>In Person Learning</td>
<td>W1-2</td>
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<td>316-003</td>
<td>Integrative Seminar in Social Work Theory, Policy and Practice</td>
<td>316</td>
<td>In Person Learning</td>
<td>W1-2</td>
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<td>325-001</td>
<td>Indigenous Peoples and Critical Social Work Analysis</td>
<td>325</td>
<td>In Person Learning</td>
<td>W1</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>325-002</td>
<td>Indigenous Peoples and Critical Social Work Analysis</td>
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<td>325-003</td>
<td>Indigenous Peoples and Critical Social Work Analysis</td>
<td>325</td>
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<td>W1</td>
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<td>Topics in Social Analysis for Social Work Practice</td>
<td>337</td>
<td>In Person Learning</td>
<td>W2</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>337-002</td>
<td>Topics in Social Analysis for Social Work Practice</td>
<td>337</td>
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<td>W2</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>337-003</td>
<td>Topics in Social Analysis for Social Work Practice</td>
<td>337</td>
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<td>W2</td>
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<td>349-001</td>
<td>Culture and Race in Social Work Practice</td>
<td>349</td>
<td>In Person Learning</td>
<td>W2</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>400-001</td>
<td>Canadian Social Policy</td>
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<td>In Person Learning</td>
<td>W1</td>
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<td>405-001</td>
<td>Social Work Practice II</td>
<td>405</td>
<td>In Person Learning</td>
<td>W1</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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This course examines the principles of optimal social work process with individuals, small groups, families and larger collectives.

In Person Learning | Thu | 5:00 p.m. - 8:00 p.m. |

In Person Learning | Wed | 10:00 a.m. - 1:00 p.m. |
This course is not eligible for Credit/D/Fail grading.

Beginners' Spanish I

This course is not eligible for Credit/D/Fail grading.

Advanced Integrative Seminar

Critical analysis of major social theories, differentiating competing approaches to understanding human behavior, social theory, social ideology, and social ethics. This course is not eligible for Credit/D/Fail grading.

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.

Social Theory, Ideology and Ethics

Critical analysis of major social theories, differentiating competing approaches to understanding human behavior, social theory, social ideology, and social ethics. This course is not eligible for Credit/D/Fail grading.

Advanced Integration of Social Work Practice

Advanced development of professional judgment, critical reflection, and integration of theory, practice, research, policy. This course is not eligible for Credit/D/Fail grading.

Social Work Doctoral Seminar

Advanced development of professional judgment, critical reflection, and integration of theory, practice, research, policy. This course is not eligible for Credit/D/Fail grading.

Social Work and Social Justice

Advanced Qualitative Inquiry

Critical analysis of major social theories, differentiating competing approaches to understanding human behavior, social theory, social ideology, and social ethics. This course is not eligible for Credit/D/Fail grading.

Directed Field Studies in Social Work II

Qualitative Methods in Social Work Research

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.

Directed Field Studies in Social Work I

Critical examination of research, teaching, proposal writing and publications. This course is not eligible for Credit/D/Fail grading.

Directed Studies in Social Work

Doctoral Dissertation

Social Work Doctoral Seminar
<table>
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<tr>
<th>Time</th>
<th>Day</th>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
<th>Location</th>
<th>Prerequisites</th>
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<td>9:30 a.m.</td>
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<td>Beginners' Spanish I</td>
<td>101</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>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 101 or both SPAN 101, SPAN 102. Recommended pre-requisite: SPAN 101.</td>
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<tr>
<td>1:00 p.m.</td>
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<td>Beginners' Spanish II</td>
<td>102</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>Continuation of foundational elements of the language. Communicate using essential vocabulary in common tasks and situations related to past, present, and future events. Aligned with CEFR level A1 objectives. Credit will be granted for either SPAN 102 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101.</td>
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<tr>
<td>9:00 a.m.</td>
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<td>Beginners' Spanish I</td>
<td>101</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>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 101 or both SPAN 101, SPAN 102. Recommended pre-requisite: SPAN 101.</td>
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<td>11:00 a.m.</td>
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<td>Beginners' Spanish I</td>
<td>101</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>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 101 or both SPAN 101, SPAN 102. Recommended pre-requisite: SPAN 101.</td>
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<tr>
<td>11:00 a.m.</td>
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<td>Beginners' Spanish I</td>
<td>101</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>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 101 or both SPAN 101, SPAN 102. Recommended pre-requisite: SPAN 101.</td>
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<td>10:00 a.m.</td>
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<td>Beginners' Spanish I</td>
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<td>Hybrid Learning</td>
<td>Mon Wed</td>
<td>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 101 or both SPAN 101, SPAN 102. Recommended pre-requisite: SPAN 101.</td>
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<td>11:00 a.m.</td>
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<td>Beginners' Spanish I</td>
<td>101</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>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 101 or both SPAN 101, SPAN 102. Recommended pre-requisite: SPAN 101.</td>
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<td>1:00 p.m.</td>
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<td>Beginners' Spanish II</td>
<td>102</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>Continuation of foundational elements of the language. Communicate using essential vocabulary in common tasks and situations related to past, present, and future events. Aligned with CEFR level A1 objectives. Credit will be granted for either SPAN 102 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101.</td>
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<td>2:00 p.m.</td>
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<td>Beginners' Spanish II</td>
<td>102</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>Continuation of foundational elements of the language. Communicate using essential vocabulary in common tasks and situations related to past, present, and future events. Aligned with CEFR level A1 objectives. Credit will be granted for either SPAN 102 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101.</td>
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Recommended pre-requisites: one of SPAN 102, SPAN 103, SPAN 11.
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 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 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-WS5 SPAN_V 201 W01 Intermediate 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 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 topics and modes. Communication 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 201, SpAN 202, SPAN 203. Recommended pre-requisites: 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 topics and modes. Communication 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 201, SpAN 202, SPAN 203. Recommended pre-requisites: SPAN 201. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.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 topics and modes. Communication 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 201, SpAN 202, SPAN 203. Recommended pre-requisites: SPAN 201. In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

SPAN_V 202-WS2 SPAN_V 202 WS02 Elementary Spanish II W2 Expansion of fundamental notions and presentation of more elaborate structures in a variety of topics and modes. Communication 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 201, SpAN 202, SPAN 203. Recommended pre-requisites: SPAN 201. In Person Learning Arranged Arranged

SPAN_V 203-201 SPAN_V 203 201 Intensive Elementary Spanish W2 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, SPAN 203. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

SPAN_V 203-101 SPAN_V 203 101 Conversational Spanish I 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 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 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 completion of language placement exam or an assessment interview. In Person Learning Wed Fri 2:00 p.m. - 3:30 p.m.

SPAN_V 222-WS1 SPAN_V 222 WS01 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 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 Concepts, theories, and practice of past, present, and revolution in the Hispanic world, highlighting the intersection of politics and culture through novels, poetry, letters, diaries, and/or historical accounts of significant upheaval. Credit will be granted for only one of SPAN 280 or one of WMT 280. 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 past, present, and revolution in the Hispanic world, highlighting the intersection of politics and culture through novels, poetry, letters, diaries, and/or historical accounts of significant upheaval. Credit will be granted for only one of SPAN 280 or one of WMT 280. In Person Learning Arranged Arranged

SPAN_V 280-WS5 SPAN_V 280 WS01 Revolution! (in English) W1 Complex geometrical 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 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 301-101 SPAN_V 301 101 Intermediate Spanish I W1 Complex geometrical 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 completion of language placement exam or an assessment interview. In Person Learning Mon Wed Fri 1:00 p.m. - 2:30 p.m.

SPAN_V 301-102 SPAN_V 301 102 Intermediate Spanish I W1 Complex geometrical 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 completion of language placement exam or an assessment interview. In Person Learning Mon Wed Fri 1:00 p.m. - 2:30 p.m.

SPAN_V 301-WS1 SPAN_V 301 WS01 Intermediate Spanish I W1 Expansion of and reflection on the use of complex geometrical 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 101 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 geometrical 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 101 or successful completion of language placement exam or an assessment interview. In Person Learning Arranged Arranged

SPAN_V 302-WS2 SPAN_V 302 WS02 Intermediate Spanish II W2 Expansion of and reflection on the use of complex geometrical 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 101 or successful completion of language placement exam or an assessment interview. In Person Learning Arranged Arranged
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<th>Title</th>
<th>Instructor</th>
<th>Days and Times</th>
<th>Location</th>
<th>Notes</th>
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<td>SPAN_V 590-101</td>
<td>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.</td>
<td>In Person Learning</td>
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<tr>
<td>SPAN_V 521-101</td>
<td>Traditional and diversity in Spanish history and culture.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<td>SPAN_V 527-101</td>
<td>The Golden Age of Peruvian literature and culture.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>SPAN_V 530-201</td>
<td>Divergent visions: Peruvian literature and culture since 1700.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>SPAN_V 564-101</td>
<td>Colonial Encounters in Spanish American literature and culture.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<td>SPAN_V 505-201</td>
<td>Modern Magics: Spanish-American literature and culture since the 1820s.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>SPAN_V 601-101</td>
<td>Upper Intermediate Spanish 1.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>SPAN_V 603-201</td>
<td>History of the Spanish language.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 694-A_101</td>
<td>From world to screen: Topics in Hispanic cinema.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 695-C_201</td>
<td>Peoples and Nations: Topics in twentieth- and twenty-first-century Spanish American Culture.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 695-B_201</td>
<td>Research Intensive Seminar in Hispanic Literature and Culture.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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</tr>
<tr>
<td>SPAN_V 699-201</td>
<td>Honours Essay.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>SPAN_V 501-B_201</td>
<td>Literary and Cultural Theory.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 522-B_201</td>
<td>Gender representations in Hispanic literatures and cultures.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 504-C_101</td>
<td>Hispanic cinema.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 504-C_201</td>
<td>Hispanic cinema.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 505-B_201</td>
<td>Transatlantic Hispanic literatures and cultures.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 549-101</td>
<td>Master's Thesis.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 549-201</td>
<td>Master's Thesis.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 590-A_101</td>
<td>Contemporary Latin-American literatures and Cultures.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 591-101</td>
<td>Proseminar I: Research Skills and Scholarly Practices.</td>
<td>In Person Learning</td>
<td>West (alternate weeks)</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>SPAN_V 592-201</td>
<td>Proseminar II: Literary and Cultural Theory.</td>
<td>In Person Learning</td>
<td>West (alternate weeks)</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td></td>
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</tbody>
</table>
SPAH_V 649-001  
Doctoral Dissertation  
W1  
In Person Learning  
Arranged  
Arranged

SPAH_V 649-101  
Doctoral Dissertation  
W1  
In Person Learning  
Arranged  
Arranged

SPAH_V 649-101  
Doctoral Dissertation  
W1  
In Person Learning  
Arranged  
Arranged

SPAH_V 503-201  
Sustainable Biomass Processing  
W2  
Properties and characterization of macromolecules including terpenes and aromatics. Polymer processing and applications to new products development including from by-products. Circular economy-driven processing. Biorefineries engineering. This course is not eligible for Credit/D/Fail grading.

SPAH_V 503-201  
Sustainable Biomass Processing  
W2  
Understanding technology of deriving biofuels and chemical feedstocks from forest biomass. Refining 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.

SPAH_V 503-201  
Sustainable Biomass Processing  
W2  
Understanding technology of deriving biofuels and chemical feedstocks from forest biomass. Refining 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.

SPHA_V 505-101  
Technology Commercialization for the Manufacturing Industries  
W1  
In Person Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 520-001  
Basic Finance  
W2  
Fundamental concepts of asset pricing and corporate finance. This course is not eligible for Credit/D/Fail grading.

SPHA_V 520-001  
Basic Finance  
W2  
Multi-access Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 520-001  
Basic Finance  
W2  
Multi-access Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 521-002  
Organizational Behavior  
W2  
The effects of individual and group behavior 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.

SPHA_V 521-002  
Organizational Behavior  
W2  
Online Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 521-002  
Organizational Behavior  
W2  
Online Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 522-002  
Indigenous Health and Cultural Safety  
W2  
Core concepts of Indigenous-specific values and cultural safety, and how these relate to the practice of health professionals. This course is not eligible for Credit/D/Fail grading.

SPHA_V 522-002  
Indigenous Health and Cultural Safety  
W2  
Online Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 522-002  
Indigenous Health and Cultural Safety  
W2  
Online Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 523-002  
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.

SPHA_V 523-002  
Health Care Priority Setting  
W2  
In Person Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 523-002  
Health Care Priority Setting  
W2  
In Person Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 542-001  
Information Technology for Management  
W1  
The role of IT in health care management, the importance of effective IT in health care setting, and the strategic uses of IT. This course is not eligible for Credit/D/Fail grading.

SPHA_V 542-001  
Information Technology for Management  
W1  
Hybrid Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 542-001  
Information Technology for Management  
W1  
Hybrid Learning  
Fri  
3:00 p.m. - 9:00 p.m.

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.

SPHA_V 551-002  
Design and Measurement 1  
W2  
Multi-access Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 551-002  
Design and Measurement 1  
W2  
Multi-access Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 553-001  
Program Planning and Evaluation  
W1  
Basic concepts and principles underlying program planning and evaluation in health sciences. This course is not eligible for Credit/D/Fail grading.

SPHA_V 553-001  
Program Planning and Evaluation  
W1  
Hybrid Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 554-002  
Application of Statistics in Management  
W1  
Data analysis and statistical inference. Application in assessment of the legitimacy and significance of reports. This course is not eligible for Credit/D/Fail grading.

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.

SPHA_V 556-001  
Social Determinants of Health  
W1  
Foundation 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.

SPHA_V 562-002  
Health Care Law  
W2  
This course is not eligible for Credit/D/Fail grading.

SPHA_V 562-002  
Health Care Law  
W2  
Hybrid Learning  
Fri  
3:00 p.m. - 9:00 p.m.

SPHA_V 562-002  
Health Care Law  
W2  
Hybrid Learning  
Fri  
3:00 p.m. - 9:00 p.m.
By seminar and directed readings, certain topics of current interest are explored in depth.

Statistics for Health Research

In Person Learning

Arranged

Mon Wed
9:00 a.m. - 10:30 a.m.

Selected Topics

Canadian Health Care Policy

1:00 p.m. - 4:00 p.m.

Thu (Alternate weeks)

Research Project

In Person Learning

Arranged

Mon Wed
11:00 a.m. - 2:00 p.m.

Selected Topics

Indigenous Health: Historical Impacts and Contemporary Approaches

In Person Learning

Arranged

Tue Thu
2:00 p.m. - 3:30 p.m.

Research Project

In Person Learning

Arranged

Tue Thu
2:00 p.m. - 3:30 p.m.

Research Project

In Person Learning

Arranged

Tue Thu
2:00 p.m. - 3:30 p.m.

Research Project

In Person Learning

Arranged

Tue Thu
2:00 p.m. - 3:30 p.m.

Research Project

In Person Learning

Arranged

Tue Thu
2:00 p.m. - 3:30 p.m.

Statistics for Health Research

Hybrid Learning

Fri
3:00 p.m. - 5:00 p.m.

Statistics for Health Research

Online Learning

Arranged

W1
3:00 p.m. - 5:00 p.m.

Statistics for Health Research

Online Learning

Arranged

W1
5:00 p.m. - 8:00 p.m.

Statistics for Health Research

Online Learning

Arranged

W1
5:00 p.m. - 8:00 p.m.

Statistics for Health Research

Online Learning

Arranged

W1
5:00 p.m. - 8:00 p.m.

Statistics for Health Research

Arranged

Fri
3:00 p.m. - 9:00 p.m.

Statistics for Health Research

In Person Learning

Arranged

Fri
3:00 p.m. - 9:00 p.m.

Statistics for Health Research

In Person Learning

Arranged

Fri
3:00 p.m. - 9:00 p.m.

Statistics for Health Research

In Person Learning

Arranged

Fri
3:00 p.m. - 9:00 p.m.

Statistics for Health Research

Hybrid Learning

Thu
9:30 a.m. - 11:00 a.m.

Statistics for Health Research

In Person Learning

Arranged

Fri
3:00 p.m. - 9:00 p.m.

Statistics for Health Research

Hybrid Learning

Thu
9:30 a.m. - 11:00 a.m.

Statistics for Health Research

Hybrid Learning

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Statistics for Health Research

Hybrid Learning

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Statistics for Health Research

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Statistics for Health Research

Hybrid Learning

Thu
9:30 a.m. - 11:00 a.m.

Statistics for Health Research

Hybrid Learning

Thu
9:30 a.m. - 11:00 a.m.
In Person Learning
508
4:00 p.m. - 7:00 p.m.

Arranged

Classroom

Monday

In Person Learning

Arranged

In Person Learning

10:30 a.m. - 12:30 p.m.

Hybrid Learning

2:00 p.m. - 5:00 p.m.

Hybrid Learning

9:30 a.m. - 12:30 p.m.

In Person Learning

1:30 p.m. - 5:30 p.m.

Hybrid Learning

9:00 a.m. - 9:00 a.m.

Hybrid Learning

2:00 p.m. - 5:00 p.m.

Hybrid Learning

1:30 p.m. - 5:00 p.m.
Course Title | CRN | Section | Time | Mode | Location | Notes
---|---|---|---|---|---|---
Leadership in Public Health | 002 | W2 | 2:00 p.m. - 5:00 p.m. | In Person Learning | West | This course is not eligible for Credit/D/Fail grading.
Qualitative Methods in Health Research | 001 | W1 | 9:00 a.m. - 12:00 p.m. | Arranged | In Person Learning | This course is not eligible for Credit/D/Fail grading.
Statistics for Health Research | 002 | W2 | 2:00 p.m. - 5:00 p.m. | Arranged | In Person Learning | This course is not eligible for Credit/D/Fail grading.
Statistics for Health Research | 001 | W1 | 9:00 a.m. - 12:00 p.m. | Arranged | In Person Learning | This course is not eligible for Credit/D/Fail grading.
In Person Learning | 002 | W2 | 12:30 p.m. - 2:00 p.m. | | | This course is not eligible for Credit/D/Fail grading.
Qualitative Methods in Health Research | 002 | W2 | 2:00 p.m. - 5:00 p.m. | Arranged | In Person Learning | This course is not eligible for Credit/D/Fail grading.
Social Determinants of Health | WB2 | W2 | 10:30 a.m. - 12:00 p.m. | Hybrid Learning | Thu (Alternate weeks) | This course is not eligible for Credit/D/Fail grading.
In Person Learning | 003 | Thu | 9:30 a.m. - 12:30 p.m. | | | This course is not eligible for Credit/D/Fail grading.
In Person Learning | 001 | Tue Thu | 9:30 a.m. - 12:30 p.m. | | | This course is not eligible for Credit/D/Fail grading.
In Person Learning | 002 | W2 | 2:00 p.m. - 5:00 p.m. | | | This course is not eligible for Credit/D/Fail grading.
In Person Learning | 001 | Tue Thu | 9:30 a.m. - 12:30 p.m. | | | This course is not eligible for Credit/D/Fail grading.
In Person Learning | 002 | W2 | 2:00 p.m. - 5:00 p.m. | | | This course is not eligible for Credit/D/Fail grading.
In Person Learning | 001 | Tue Thu | 9:30 a.m. - 12:30 p.m. | | | This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>W1</th>
<th>W2</th>
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<tbody>
<tr>
<td>SPPH_V 541-001</td>
<td>Economic Evaluation</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>SPPH_V 541-002</td>
<td>Economic Evaluation</td>
<td>In Person Learning</td>
<td>Weel</td>
</tr>
<tr>
<td>SPPH_V 542-W81</td>
<td>Canadian Health Policy</td>
<td>Analysis of the evolution and structure of the Canadian health care system. This course is not eligible for Credit/D/Fail grading.</td>
<td>Hybrid Learning</td>
</tr>
<tr>
<td>SPPH_V 545-001</td>
<td>Community Health Promotion</td>
<td>Practice and community-based participatory research related to health promotion, including 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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 546-001</td>
<td>Introduction to Health Economics</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 547-BL3</td>
<td>Health Care Priority Setting</td>
<td>Resource allocation, economics and ethics-based approaches for decision-making, update of evidence to inform resource use in health care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 548-W81</td>
<td>Knowledge to Action in Population Health</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 550-W81</td>
<td>Public Health Approaches to Substance Use and Addictions</td>
<td>Principles and applications of pharmacoeconomics. Practical skills in designing, conducting, and appraising studies of medications in large populations. Credit will be granted for only one of SPPH 550 or PUBH 561. Prerequisite: Previous coursework in statistics or biostatistics.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 551-002</td>
<td>Pharmacoeconomics</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 552-W81</td>
<td>Science and Risk Communication for Public Health</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 553-001</td>
<td>Foundations of Public Health Computing</td>
<td>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. Recommended: SPPH 567 or an equivalent statistics or quantitative course is recommended. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 563-003</td>
<td>Chemical and Biological Hazard Measurement</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 563-001</td>
<td>Technical Aspects of Occupational Hygiene Hazard Controls</td>
<td>Industrial ventilation, heating and air conditioning systems, respiratory protection, chemical protective clothing. This course is not eligible for Credit/D/Fail grading. Prerequisite: SPPH 521. 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 521, SPPH 564. Consent: SPPH 522.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 564-002</td>
<td>Advanced Topics in Occupational and Environmental Health</td>
<td>Industrial hygiene; other graduate students may enrol with permission of the instructor. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 565-001</td>
<td>Ergonomics</td>
<td>Human factors in workplace design, anthropometry, work physiology. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 565-002</td>
<td>Ergonomics</td>
<td>Human factors in workplace design, anthropometry, work physiology. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 566-001</td>
<td>Occupational Hygiene Practice</td>
<td>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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 567-002</td>
<td>Quantitative Methods for the Assessment and Analysis of Exposure Data</td>
<td>Determination of exposure, sampling strategies. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 568-001</td>
<td>Occupational Safety Programs and Systems</td>
<td>Safety management; systems analysis; accident investigation; collection of accident data; fruit trees; toilless control. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 568-002</td>
<td>Occupational Safety Programs and Systems</td>
<td>Safety management; systems analysis; accident investigation; collection of accident data; fruit trees; toilless control. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 569-001</td>
<td>Industrial and Environmental Acoustics and Vibration</td>
<td>Fundamentals of acoustic and vibration, 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.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>SPPH_V 570-003</td>
<td>Current Issues in Public Health Practice</td>
<td>Pen/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>Course Code</td>
<td>Title</td>
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<td>Days</td>
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<tr>
<td>SPPH 598-001</td>
<td>Occupational and Environmental Hygiene Project</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>SPPH 599-001</td>
<td>M.S. Thesis</td>
<td>In Person Learning</td>
<td>W1</td>
</tr>
<tr>
<td>SPPH 599-002</td>
<td>M.S. Thesis</td>
<td>In Person Learning</td>
<td>W2</td>
</tr>
<tr>
<td>SPPH 599-003</td>
<td>M.S. Thesis</td>
<td>In Person Learning</td>
<td>W1</td>
</tr>
<tr>
<td>SPPH 604-001</td>
<td>Application of Advanced Epidemiological Methods</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>SPPH 604-003</td>
<td>Application of Advanced Epidemiological Methods</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>SPPH 607-004</td>
<td>Ph.D. Research Seminar</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>SPPH_V 600-001</td>
<td>STAT_V 200-L1A</td>
<td>Wed</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>SPPH_V 600-002</td>
<td>STAT_V 200-L1B</td>
<td>Wed</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>SPPH_V 600-003</td>
<td>STAT_V 200-L1C</td>
<td>Wed</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>SPPH_V 600-004</td>
<td>STAT_V 200-L1D</td>
<td>Wed</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>SPPH_V 600-005</td>
<td>STAT_V 200-L1E</td>
<td>Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>SPPH_V 600-006</td>
<td>STAT_V 200-L1F</td>
<td>Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>SPPH_V 600-007</td>
<td>STAT_V 200-L1G</td>
<td>Wed</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>SPPH_V 600-008</td>
<td>STAT_V 200-L1H</td>
<td>Wed</td>
<td>4:00 p.m. - 5:00 p.m.</td>
</tr>
</tbody>
</table>

**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.**

**Faculty of Science Credit Exclusion Lists:** https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists

**Course is not eligible for Credit/D/Fail grading.**
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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 110, SCIE 001.

In Person Learning: Tue 10:00 a.m. - 11:00 a.m.

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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-1-0]. Prerequisite: One of any course on the MATH 150 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCIE 001.

In Person Learning: Wed 10:00 a.m. - 11:00 a.m.

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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 110, SCIE 001.

In Person Learning: Thu 2:00 p.m. - 3:00 p.m.

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: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 110, SCIE 001.

In Person Learning: Fri 10:00 a.m. - 11:00 a.m.
| STAT_V 200-L18 | STAT_V | 200 | L18 | Elementary Statistics for Applications | W1 | In Person Learning | Wed | 9:00 a.m. - 10:00 a.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L15 | STAT_V | 200 | L15 | Elementary Statistics for Applications | W1 | In Person Learning | Wed | 10:00 a.m. - 11:00 a.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L1T | STAT_V | 200 | L1T | Elementary Statistics for Applications | W1 | In Person Learning | Arranged | Arranged

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2A | STAT_V | 200 | L2A | Elementary Statistics for Applications | W2 | In Person Learning | Mon | 4:00 p.m. - 5:00 p.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2B | STAT_V | 200 | L2B | Elementary Statistics for Applications | W2 | In Person Learning | Mon | 4:00 p.m. - 5:00 p.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2C | STAT_V | 200 | L2C | Elementary Statistics for Applications | W2 | In Person Learning | Tue | 1:00 p.m. - 2:00 p.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2D | STAT_V | 200 | L2D | Elementary Statistics for Applications | W2 | In Person Learning | Tue | 1:00 p.m. - 2:00 p.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2E | STAT_V | 200 | L2E | Elementary Statistics for Applications | W2 | In Person Learning | Tue | 1:00 p.m. - 2:00 p.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2F | STAT_V | 200 | L2F | Elementary Statistics for Applications | W2 | In Person Learning | Wed | 4:00 p.m. - 5:00 p.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2G | STAT_V | 200 | L2G | Elementary Statistics for Applications | W2 | In Person Learning | Thu | 11:00 a.m. - 12:00 p.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2H | STAT_V | 200 | L2H | Elementary Statistics for Applications | W2 | In Person Learning | Fri | 9:00 a.m. - 10:00 a.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.

| STAT_V 200-L2I | STAT_V | 200 | L2I | Elementary Statistics for Applications | W2 | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m.

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: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists] [3-1-0]. Prerequisite: One of any course on the MATH 100 credit exclusion list [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists], MATH 100, SCI 100.
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<th>Title</th>
<th>Description</th>
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<td>STAT 200-12J</td>
<td>Elementary Statistics for Applications</td>
<td>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 List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list</a> [3-1-0] Prerequisite: One of any MATH 100 credit exclusion list <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list</a>]</td>
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<td>STAT 200-12X</td>
<td>Elementary Statistics for Applications</td>
<td>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 List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list</a> [3-1-0] Prerequisite: One of any course in the MATH 101 credit exclusion list <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list</a>.</td>
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<td>Elementary Statistics for Applications</td>
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</table>

**Notes:**
- Classical, nonparametric, and robust 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. [3-1-0] Prerequisite: SCIE 001.
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- Classical, nonparametric, and robust 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. [3-1-0] Prerequisite: SCIE 001.
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 105, MATH 121, SCI 101.

In Person Learning: Wed 5:00 p.m. - 6:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Arranged

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 105, MATH 121, SCI 101.

In Person Learning: Arranged

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 105, MATH 121, SCI 101.

In Person Learning: Fri 9:00 a.m. - 10:00 a.m.

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 105, MATH 121, SCI 101.

In Person Learning: Fri 9:00 a.m. - 10:00 a.m.

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 105, MATH 121, SCI 101.

In Person Learning: 12:00 p.m. - 1:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Arranged

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 105, MATH 121, SCI 101.

In Person Learning: Arranged

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 105, MATH 121, SCI 101.

In Person Learning: Fri 11:00 a.m. - 12:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Mon 10:00 a.m. - 11:00 a.m.

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 105, MATH 121, SCI 101.

In Person Learning: Mon 10:00 a.m. - 11:00 a.m.

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 105, MATH 121, SCI 101.

In Person Learning: Mon 12:00 p.m. - 1:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Mon 12:00 p.m. - 1:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Arranged

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 105, MATH 121, SCI 101.

In Person Learning: Arranged

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 105, MATH 121, SCI 101.

In Person Learning: Mon 8:00 a.m. - 9:00 a.m.

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 105, MATH 121, SCI 101.

In Person Learning: Wed 10:00 a.m. - 11:00 a.m.

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 105, MATH 121, SCI 101.

In Person Learning: Wed 3:00 p.m. - 4:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Wed 12:00 p.m. - 1:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Thu 8:00 a.m. - 9:00 a.m.

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 105, MATH 121, SCI 101.

In Person Learning: Fri 12:00 p.m. - 1:00 p.m.

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 105, MATH 121, SCI 101.

In Person Learning: Fri 2:00 p.m. - 3:00 p.m.

Further topics in statistical inference, including parametric and non-parametric methods, goodness-of-fit methods, analysis of variance and covariance, regression analysis, categorical data analysis, experimental design, time series, model-fitting, and statistical computing. [3-1-0] Prerequisite: One of STAT 200, STAT 241, STAT 251, ECON 200, BUSI 200, PSYC 218, PSYC 278. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar). [3-1-0] Prerequisite: One of MATH 101, MATH 105, MATH 121, SCI 101.

In Person Learning: Mon 3:00 p.m. - 4:00 p.m.
Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peak
bands, and variable selection algorithms) in case studies from different disciplines. Gener
ve statistics on-sample predictive models. Reproducible and transparent workflows for computer
scripts and reports. [3-0-0] Prerequisite: STAT 202 and one of MATH 100, MATH 102, MATH 204, 
MATH 110, STAT 120, MATH 139, MATH 140, MATH 185.

In Person Learning  Thu 5:00 p.m. - 6:00 p.m.

Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peak
bands, and variable selection algorithms) in case studies from different disciplines. Gener
ve statistics on-sample predictive models. Reproducible and transparent workflows for computer
scripts and reports. [3-0-0] Prerequisite: STAT 202 and one of MATH 100, MATH 102, MATH 204, 
MATH 110, STAT 120, MATH 139, MATH 140, MATH 185.

In Person Learning  Tue 10:30 a.m. - 11:00 a.m.

Basic notions of probability, random variables, expectation and conditional expectations, limit
theorems. Course the Credence Evidence within the Faculty of Science section in the Calendar
[3-0-0] Prerequisite: One of MATH 210, MATH 211, MATH 213, MATH 254. Equivalency: 
MATH2002

In Person Learning  Fri 10:30 a.m. - 12:00 p.m.

Basic notions of probability, random variables, expectation and conditional expectations, limit
theorems. Course the Credence Evidence within the Faculty of Science section in the Calendar
[3-0-0] Prerequisite: One of MATH 210, MATH 211, MATH 213, MATH 254. Equivalency: 
MATH2002

In Person Learning  Tue Thu 2:00 p.m. - 3:00 p.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Wed Fri 9:00 a.m. - 10:30 a.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. 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.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Wed 4:00 p.m. - 5:00 p.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Mon 1:00 p.m. - 2:00 p.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Wed 2:00 p.m. - 3:00 p.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Fri 2:00 p.m. - 3:00 p.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Tue 4:00 p.m. - 5:00 p.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Wed 5:00 p.m. - 6:00 p.m.

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Arranged

Review of probability theory. Sampling distribution theory, large sample theory and methods 
of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio 
estimation, decision analysis, and confidence interval construction. [3-0-1] Prerequisite: Either (a) one of STAT 200, STAT 
202, STAT 210, STAT 211, STAT 213, STAT 231, STAT 233, ECON 135, PSYC 201, PSYC 208, PSYC 346 and one 
of MATH 200, STAT 202, or (b) a score of 60% or higher in one of MATH 162, STAT 202. The 
Department recommends that students meet the prerequisite through option (a).

In Person Learning  Arranged
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) Prerequisites: Either (a) one of STAT 200, STAT 203, STAT 211, STAT 213, STAT 218, STAT 305, COMMM 201, ECON 225, ECON 235, ECON 236, ECON 323, ECON 324, ECON 327, FRST 205, PSYC 205, PSYC 206 and one of MATH 100, STAT 302 or (b) a score of 60% or higher in one of MATH 102, 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.

Finding Relationships in Data

L1D

L2A

L2D

Mon

In Person Learning

3:00 p.m. - 4:00 p.m.

Finding Relationships in Data

L1C

Mon

Finding Relationships in Data

Fri

9:00 a.m. - 10:00 a.m.

305

W2

W1

W2

Finding Relationships in Data

In Person Learning

Arranged

Mon-Fri

10:30 a.m. - 12:00 p.m.

Finding Relationships in Data

L2B

W2

1:00 p.m. - 2:00 p.m.

Fri

L2F

10:30 a.m. - 12:00 p.m.

In Person Learning

W2

Arranged

1:00 p.m. - 2:00 p.m.

Finding Relationships in Data

Arranged

W1

Finding Relationships in Data

In Person Learning

Arranged

W2

Finding Relationships in Data

In Person Learning

Mon

9:00 a.m. - 10:00 a.m.

Finding Relationships in Data

L2E

W1

3:30 p.m. - 5:00 p.m.

Finding Relationships in Data

L2C

W1

Finding Relationships in Data

In Person Learning

Arranged

W2

Finding Relationships in Data

In Person Learning

Tue Thu

2:30 p.m. - 5:00 p.m.

Finding Relationships in Data

L2F

W2

Finding Relationships in Data

In Person Learning

Mon

9:00 a.m. - 10:00 a.m.

Finding Relationships in Data

L2C

L2A

L2D

W2

Finding Relationships in Data

In Person Learning

Arranged

W1

Finding Relationships in Data

In Person Learning

Mon

1:00 p.m. - 2:00 p.m.

Finding Relationships in Data

L2B

L1A

L1B

W1

Finding Relationships in Data

In Person Learning

Arranged

W1

Finding Relationships in Data

In Person Learning

Mon

1:00 p.m. - 2:00 p.m.

Finding Relationships in Data

L2E

L1D

L2D

W1

Finding Relationships in Data

In Person Learning

Arranged

W2

Finding Relationships in Data

In Person Learning

Tue

12:00 p.m. - 1:00 p.m.

Finding Relationships in Data

L2F

W2

Finding Relationships in Data

In Person Learning

Wed

3:30 p.m. - 6:00 p.m.

Finding Relationships in Data

L2C

L2C

L2C

W2

Finding Relationships in Data

In Person Learning

Thu

1:00 p.m. - 2:00 p.m.

Finding Relationships in Data

L2D

L2D

L2D

W3

Finding Relationships in Data

In Person Learning

Fri

2:00 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.) 

STAT-V 349-101 STAT-V 348-101 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-102 STAT-V 348-102 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-103 STAT-V 348-103 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-104 STAT-V 348-104 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-105 STAT-V 348-105 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-106 STAT-V 348-106 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-107 STAT-V 348-107 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-108 STAT-V 348-108 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-109 STAT-V 348-109 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.

STAT-V 349-110 STAT-V 348-110 
Planning and practice of sample surveys: Random sampling, bias and variance, unequal probability sampling, systematic, multistage and stratiﬁed sampling, ratio and regression estimation, 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 269, COMM 291, ECON 225, ECON 227, ECON 235, PSYC 218, PSYC 276, PSYC 346. Corequisite: One of MATH 302, STAT 302.
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<th>STAT_V 490-1LB</th>
<th>Methods for Statistical Learning</th>
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<td>Hypothesis testing and model selection in modern statistics, confidence regions, multiple testing, model comparison criteria. Intended for honours students. (3-0-0) Prerequisite: All of STAT 300, STAT 301 and one of MATH 100, MATH 101, MATH 102.</td>
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<td>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.</td>
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<td>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.</td>
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<td>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.</td>
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<td>W2</td>
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<tr>
<td>STAT_V 540-A_201</td>
<td>Statistical Methods for High Dimensional Biology</td>
<td>W2</td>
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<td>STAT_V 541-A_101</td>
<td>Exploratory Data Analysis</td>
<td>W1</td>
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<tr>
<td>STAT_V 548-A_101</td>
<td>Topics in Statistics</td>
<td>W1</td>
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<tr>
<td>STAT_V 549-N_101</td>
<td>Topics in Statistics</td>
<td>W1</td>
</tr>
<tr>
<td>STAT_V 567-T_001</td>
<td>Topics in Statistics</td>
<td>W2</td>
</tr>
<tr>
<td>STAT_V 567-U_001</td>
<td>Topics in Deep Learning Theory</td>
<td>W2</td>
</tr>
<tr>
<td>STAT_V 568-A_101</td>
<td>Directed Studies in Statistics</td>
<td>W1</td>
</tr>
<tr>
<td>STAT_V 568-B_101</td>
<td>Directed Studies in Statistics</td>
<td>W2</td>
</tr>
<tr>
<td>STAT_V 589-A_101</td>
<td>Thesis for Master's Degree</td>
<td>W1</td>
</tr>
<tr>
<td>STAT_V 589-A_101</td>
<td>Thesis for Master's Degree</td>
<td>W2</td>
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</tbody>
</table>

*This course is not eligible for Credit/D/Fail grading.*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Location</th>
<th>Credits</th>
<th>Schedule</th>
<th>Grading</th>
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<tr>
<td>STAT 550-201</td>
<td>STAT 550</td>
<td>201 Techniques of Statistical Consulting</td>
<td>W2  This course is not eligible for Credit/D/Fail grading. In Person Learning  Wed Fri  2:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>STAT 551-101</td>
<td>STAT 551</td>
<td>101 Statistical Consulting Practicum</td>
<td>W1  This course is not eligible for Credit/D/Fail grading. In Person Learning  Mon Wed  2:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>STAT 560-101</td>
<td>STAT 560</td>
<td>101 Statistical Theory I</td>
<td>W1  Credit will not be given for both STAT 480 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. - 12:00 p.m.</td>
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<tr>
<td>STAT 561-201</td>
<td>STAT 561</td>
<td>201 Statistical Theory II</td>
<td>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.</td>
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<tr>
<td>STAT 589-101</td>
<td>STAT 589</td>
<td>101 Co-operative Work Placement I</td>
<td>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. - 9:30 a.m.</td>
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<tr>
<td>STAT 590-101</td>
<td>STAT 590</td>
<td>101 Co-operative Work Placement II</td>
<td>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 589.  In Person Learning  Arranged  Arranged</td>
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<tr>
<td>STAT 591-201</td>
<td>STAT 591</td>
<td>201 Co-operative Work Placement II</td>
<td>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 589.  In Person Learning  Arranged  Arranged</td>
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<tr>
<td>STAT 598-101</td>
<td>STAT 598</td>
<td>101 Doctoral Dissertation</td>
<td>W1  This course is not eligible for Credit/D/Fail grading. In Person Learning  Arranged  Arranged</td>
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<tr>
<td>STAT 599-101</td>
<td>STAT 599</td>
<td>101 Doctoral Dissertation</td>
<td>W1  This course is not eligible for Credit/D/Fail grading. In Person Learning  Arranged  Arranged</td>
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<tr>
<td>SURG 500-201</td>
<td>SURG 500</td>
<td>201 Experimental Surgery</td>
<td>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</td>
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<tr>
<td>SURG 510-A</td>
<td>SURG 510</td>
<td>A A_001 Surgical Care in International Health</td>
<td>W1  Foundation to international surgery. The discussion of the global burden of arm's 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</td>
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<tr>
<td>SURG 510-B</td>
<td>SURG 510</td>
<td>B B_001 Surgical Care in International Health</td>
<td>W1  Foundation to international surgery. The discussion of the global burden of arm's 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</td>
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<tr>
<td>SURG 512-A</td>
<td>SURG 512</td>
<td>A A_001 Global Disability: A Surgical Care Mandate</td>
<td>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</td>
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<tr>
<td>SURG 512-B</td>
<td>SURG 512</td>
<td>B B_001 Global Disability: A Surgical Care Mandate</td>
<td>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</td>
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<tr>
<td>SURG 514-A</td>
<td>SURG 514</td>
<td>A A_001 Surgical Care in Humanitarian Disaster Response</td>
<td>W2  Examine 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</td>
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</table>
Surgical Care in Humanitarian Disaster Response

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.

Program Planning and Evaluation in Surgical Care contexts. Theory, approaches and methods for conducting surgical care programs among populations in humanitarian care contexts. Key concepts, ethical approaches and practices, and practical skills development. Credit will be granted for only one of SURG 150 or SURG 516. This course is not eligible for Credit/D/Fail grading.

Program Planning and Evaluation in Surgical Care contexts. Theory, approaches and methods for conducting surgical care programs among populations in humanitarian care contexts. Key concepts, ethical approaches and practices, and practical skills development. Credit will be granted for only one of SURG 150 or SURG 516. This course is not eligible for Credit/D/Fail grading.

Program Planning and Evaluation in Surgical Care contexts. Theory, approaches and methods for conducting surgical care programs among populations in humanitarian care contexts. Key concepts, ethical approaches and practices, and practical skills development. Credit will be granted for only one of SURG 150 or SURG 516. This course is not eligible for Credit/D/Fail grading.

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 151 or SURG 517. This course is not eligible for Credit/D/Fail grading.

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 151 or SURG 517. This course is not eligible for Credit/D/Fail grading.

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 151 or SURG 517. This course is not eligible for Credit/D/Fail grading.

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 151 or SURG 517. This course is not eligible for Credit/D/Fail grading.

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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 151 or SURG 517. This course is not eligible for Credit/D/Fail grading.

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 151 or SURG 517. This course is not eligible for Credit/D/Fail grading.

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<th>Course Code</th>
<th>Course Title</th>
<th>Sections</th>
<th>Credits</th>
<th>Type</th>
<th>Title</th>
<th>Days</th>
<th>Times</th>
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<tr>
<td>THFL_V 226-001</td>
<td>Celebrity Studies</td>
<td>W1</td>
<td>001</td>
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<td>In Person Learning Thu</td>
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<tr>
<td>THFL_V 402-001</td>
<td>Professional Portfolio Preparation for Live and Digital Performance</td>
<td>W1</td>
<td>001</td>
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<td>In Person Learning   Wed</td>
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<tr>
<td>THFL_V 599-B_001</td>
<td>Production</td>
<td>W2</td>
<td>001</td>
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<td>In Person Learning   Wed</td>
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<tr>
<td>THFL_V 599-C_001</td>
<td>Production</td>
<td>W1-2</td>
<td>001</td>
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<td>In Person Learning   Wed (alternate weeks)</td>
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<tr>
<td>THTR_V 120-001</td>
<td>Introduction to Theatre</td>
<td>W1</td>
<td>001</td>
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<td>In Person Learning   Mon-Wed</td>
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<tr>
<td>THTR_V 120-002</td>
<td>Introduction to Theatre</td>
<td>W2</td>
<td>001</td>
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<td>In Person Learning   Mon-Wed</td>
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<tr>
<td>THTR_V 120-011</td>
<td>Introduction to Theatre</td>
<td>W1</td>
<td>011</td>
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<td>In Person Learning   Fri</td>
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<tr>
<td>THTR_V 120-012</td>
<td>Introduction to Theatre</td>
<td>W1</td>
<td>012</td>
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<td>In Person Learning   Fri</td>
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<tr>
<td>THTR_V 130-001</td>
<td>Introduction to Stage Acting</td>
<td>W1</td>
<td>001</td>
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<td>In Person Learning   Mon-We</td>
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<tr>
<td>THTR_V 130-002</td>
<td>Introduction to Stage Acting</td>
<td>W2</td>
<td>002</td>
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<td>In Person Learning   Mon-We</td>
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<tr>
<td>THTR_V 130-003</td>
<td>Introduction to Stage Acting</td>
<td>W3</td>
<td>003</td>
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<td>In Person Learning   Arranged</td>
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<tr>
<td>THTR_V 130-A_001</td>
<td>Introduction to Production</td>
<td>W1</td>
<td>A_001</td>
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<td>In Person Learning   Tue-Thu</td>
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<tr>
<td>THTR_V 130-B_001</td>
<td>Introduction to Production</td>
<td>W1-2</td>
<td>B_001</td>
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<td>In Person Learning   Thu</td>
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<tr>
<td>THTR_V 205-A_001</td>
<td>Graphics for Theatre and Film Design</td>
<td>W1</td>
<td>A_001</td>
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<td>In Person Learning   Mon</td>
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<tr>
<td>THTR_V 205-A_002</td>
<td>Graphics for Theatre and Film Design</td>
<td>W1</td>
<td>A_002</td>
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<td>In Person Learning   Arranged</td>
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<tr>
<td>THTR_V 205-A_010</td>
<td>Graphics for Theatre and Film Design</td>
<td>W1</td>
<td>A_010</td>
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<td>In Person Learning   Mon</td>
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<tr>
<td>THTR_V 205-A_012</td>
<td>Graphics for Theatre and Film Design</td>
<td>W1</td>
<td>A_012</td>
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<td>In Person Learning   Tue</td>
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<tr>
<td>THTR_V 205-A_013</td>
<td>Graphics for Theatre and Film Design</td>
<td>W1</td>
<td>A_013</td>
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<td>In Person Learning   Thu</td>
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<td>THTR_V 205-A_014</td>
<td>Graphics for Theatre and Film Design</td>
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<td>A_014</td>
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<td>In Person Learning   Thu</td>
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<td>THTR_V 205-D_001</td>
<td>Graphics for Theatre and Film Design</td>
<td>W2</td>
<td>D_001</td>
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<td>In Person Learning   Arranged</td>
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<td>THTR_V 205-D_002</td>
<td>Graphics for Theatre and Film Design</td>
<td>W2</td>
<td>D_002</td>
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<td>In Person Learning   Arranged</td>
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<td>Course Code</td>
<td>Type</td>
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<td>Days</td>
<td>Time</td>
<td>Location</td>
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<tr>
<td>THTR 205-D</td>
<td>D_001</td>
<td>Graphics for Theatre and Film Design</td>
<td>W2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>THTR 205-D</td>
<td>D_004</td>
<td>Graphics for Theatre and Film Design</td>
<td>W2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>THTR 210-D</td>
<td>D_001</td>
<td>Drama: Forms and Ideas I</td>
<td>W1</td>
<td>9:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
<td>Mon- Wed</td>
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<tr>
<td>THTR 210-D</td>
<td>D_001</td>
<td>Drama: Forms and Ideas I</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>THTR 211-D</td>
<td>D_001</td>
<td>Drama: Forms and Ideas II</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon- Wed</td>
<td></td>
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<tr>
<td>THTR 211-D</td>
<td>D_001</td>
<td>Drama: Forms and Ideas II</td>
<td>W2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>THTR 245-D</td>
<td>D_001</td>
<td>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.</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>THTR 250-D</td>
<td>D_001</td>
<td>Technical Production</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
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<tr>
<td>THTR 250-D</td>
<td>D_002</td>
<td>Technical Production</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
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<tr>
<td>THTR 271-D</td>
<td>D_001</td>
<td>Beginning B.F.A. Acting I</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>THTR 272-D</td>
<td>D_001</td>
<td>Beginning B.F.A. Acting II</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>THTR 273-D</td>
<td>D_001</td>
<td>Beginning Voice and Movement I</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>THTR 274-D</td>
<td>D_001</td>
<td>Beginning Voice and Movement II</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>THTR 299-A</td>
<td>A_001</td>
<td>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</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>THTR 299-A</td>
<td>A_002</td>
<td>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</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>THTR 299-A</td>
<td>A_003</td>
<td>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</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>THTR 299-A</td>
<td>A_004</td>
<td>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</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>A_005</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>A_006</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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<td>THTR 299-A</td>
<td>A_007</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
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THTR_V 299-B_001 THTR_V 206 B B_001 Production I W2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 B B_002 Production I W2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 B B_003 Production I W2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 B B_004 Production I W2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 B B_005 Production I W2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 B B_006 Production I W2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 B B_007 Production I W2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 C C_001 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 C C_002 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 C C_003 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 C C_004 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 C C_005 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 C C_006 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 C C_007 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 206 K K_001 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 208 L L_001 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 208 P P_001 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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 208 R R_001 Production I W1-2 Assigned projects in theatre production. Corequisite: One of THTR 250, THTR 255. 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. - 4:30 p.m.

THTR_V 308-001 THTR_V 308 001 Sound Design W1 Audio design and productions. 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 drama theory and the 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.
Costume Construction
Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.

Production II
Open to all students in third year and above.

Stage Management
Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.

Intermediate B.F.A. Acting I
In Person Learning
1:00 p.m. - 4:30 p.m.
9:00 a.m. - 12:00 p.m.
Fri
Thu
Arranged
Mon Wed Fri

Production II
Intermediate B.F.A. Acting II
In Person Learning
11:00 a.m. - 12:00 p.m.

Scene Painting I
In Person Learning
6:00 p.m. - 9:00 p.m.

Stage Management
In Person Learning
Fri
9:00 a.m. - 12:00 p.m.

Costume Construction
In Person Learning
Tha
9:00 a.m. - 12:00 p.m.

Costume Construction
In Person Learning
Arranged
Arranged

Intermediate Voice, Speech, and Movement II
In Person Learning
W1-2
1:00 p.m. - 4:30 p.m.

Scene Painting I
In Person Learning
Mon Wed Fri

Intermediate Voice, Speech, and Movement I
Open only to B.F.A. Acting students. Prerequisite: All of THTR 271, THTR 272, THTR 273, THTR 274.

Production II
Core concepts in world theatre history and the development of theatre prior to the sixteenth century.

Production II

Production II

Production II

Production II
Topics in Theatre
Women in Theatre and Film

- Arranged
- 11:00 a.m. - 2:00 p.m.

Directed Studies in Theatre Theory and Practice

- In Person Learning
- Arranged
- 448

- Wed (Alternate weeks)
- 1:00 p.m. - 2:00 p.m.

Lighting Design II

- In Person Learning
- Arranged
- 440

Complex problems and selected historical studies in costume design. Prerequisite: THTR 306.

- In Person Learning
- Arranged
- 406

Dramaturgy

- In Person Learning
- Arranged
- 405

- Advanced problems in dramaturgy, both in a historical and a contemporary context.

- In Person Learning
- Arranged
- 410

Costume Design II

- In Person Learning
- Arranged
- 417

Directed Lab

- In Person Learning
- Arranged
- 441

- Majors and Honours Seminar

- In Person Learning
- Arranged
- 445

- Exploration of complex scenery design and development of design portfolio. Prerequisite: THTR 305.

- In Person Learning
- Arranged
- 401


- In Person Learning
- Arranged
- 403


- In Person Learning
- Arranged
- 404


- In Person Learning
- Arranged
- 405

- Exploration of complex scenery design and development of design portfolio. Prerequisite: THTR 305.

- In Person Learning
- Arranged
- 406

- Complex design and advanced technologies in stage lighting and scenography. Prerequisite: THTR 307.

- In Person Learning
- Arranged
- 407

- An examination in depth of a selected area of theatre history, theory or practice. Topics will change from year to year. Credit will be granted for only one of THTR 413 or THTR 415. Equivalency: THTR 415 or THTR 415.

- In Person Learning
- Arranged
- 413

- Women in Theatre and Film

- In Person Learning
- Arranged
- 414

- Complex design and advanced technologies in stage lighting and scenography. Prerequisite: THTR 307.

- In Person Learning
- Arranged
- 415


- In Person Learning
- Arranged
- 416


- In Person Learning
- Arranged
- 417


- In Person Learning
- Arranged
- 418


- In Person Learning
- Arranged
- 419


- In Person Learning
- Arranged
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- In Person Learning
- Arranged
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- In Person Learning
- Arranged
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- In Person Learning
- Arranged
- 423
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<td>W2</td>
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<td>W1-2</td>
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<td>W1-2</td>
<td>In Person Learning</td>
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<td>W1-2</td>
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<td>THTR_V 449-001</td>
<td>Supervised Study and Honours Essay</td>
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<td>In Person Learning</td>
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<td>THTR_V 450-001</td>
<td>Scenery Production II</td>
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<td>Tue Thu 9:30 a.m. - 12:30 p.m.</td>
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<td>THTR_V 452-001</td>
<td>Scene Painting I</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon-Tue 6:00 p.m. - 9:00 p.m.</td>
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<td>THTR_V 454-001</td>
<td>Costume Construction II</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>THTR_V 456-001</td>
<td>Costume Construction II</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>THTR_V 471-001</td>
<td>Advanced B.F.A. Acting I</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>THTR_V 472-001</td>
<td>Advanced B.F.A. Acting II</td>
<td>W2</td>
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<td>THTR_V 473-001</td>
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<td>W1</td>
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<td>THTR_V 474-001</td>
<td>Advanced Speech and Movement II</td>
<td>W2</td>
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<td>THTR_V 491-A_001</td>
<td>Advanced Rehearsal and Performance</td>
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<td>Advanced Rehearsal and Performance</td>
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<td>Scenery Design Studio I</td>
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<td>Direction and Production</td>
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<td>Seminar: Relationships Between Theatre and the Other Arts</td>
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<td>Directed Studies in Theatre and Drama and Film/Television</td>
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This course is not eligible for Credit/D/Fail grading.

The credit value for this course will be determined in consultation with the student prior to the registration.

Directed Studies in Theatre and Drama and Film/Television

An advanced course in directing; detailed study of the major styles in the history of production.

Scenery design for theatre and other performance forms. This course is not eligible for Credit/D/Fail grading.

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.

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.

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.

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.

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.

An advanced course in directing; detailed study of the major styles in the history of production.

One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.

One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.

One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.

One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.

One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.

One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Location</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>THTR_V 555-001</td>
<td>001</td>
<td>Classroom</td>
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<td>Structural Design for the Stage I</td>
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<tr>
<td>THTR_V 561-A_001</td>
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<td>Classroom</td>
<td>3</td>
<td>Studies in Dramatic Literature</td>
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<tr>
<td>THTR_V 562-A_001</td>
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<td>Classroom</td>
<td>3</td>
<td>Studies in Dramatic Theory and Criticism</td>
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<td>THTR_V 649-001</td>
<td>W1-2</td>
<td>Classroom</td>
<td>3</td>
<td>Doctoral Dissertation</td>
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<td>THTR_V 649-002</td>
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<td>Classroom</td>
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<td>Doctoral Dissertation</td>
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<td>THTR_V 649-003</td>
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<td>Classroom</td>
<td>3</td>
<td>Doctoral Dissertation</td>
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<tr>
<td>UDES_V 503-001</td>
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<td>Classroom</td>
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<td>Introduction to Tibetan I</td>
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<td>UDES_V 504-T01</td>
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<td>UDES_V 504-002</td>
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<td>UDES_V 506-001</td>
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<td>UDES_V 509-C_201</td>
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<td>Classroom</td>
<td>3</td>
<td>Classical Tibetan V</td>
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<tr>
<td>UFOR_V 200-101</td>
<td>W1-2</td>
<td>Classroom</td>
<td>3</td>
<td>Urban Forests and Well-Being</td>
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<tr>
<td>UFOR_V 200-101</td>
<td>W1-2</td>
<td>Classroom</td>
<td>3</td>
<td>Urban Forests and Well-Being</td>
</tr>
</tbody>
</table>

Notes:
- Some courses are not eligible for Credit/D/Fail grading.
- Prerequisites and recommended pre-requisites are mentioned for some courses.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instructor</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UFOR_V 220-101</td>
<td></td>
<td>Urban Forest Inventory and Assessment</td>
<td>An overview of urban forest resources, structure and composition, 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.</td>
</tr>
<tr>
<td>UFOR_V 230-101</td>
<td></td>
<td>Urban Forest Inventory and Assessment</td>
<td>An overview of urban forest resources, structure and composition, 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.</td>
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<tr>
<td>UFOR_V 231-101</td>
<td></td>
<td>Introductory Statistical Methods for Urban Forestry</td>
<td>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 333. In Person Learning - Mon Wed 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>UFOR_V 231-102</td>
<td></td>
<td>Introductory Statistical Methods for Urban Forestry</td>
<td>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 333. In Person Learning - Thu 12:00 p.m. - 1:30 p.m.</td>
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<tr>
<td>UFOR_V 300-101</td>
<td></td>
<td>Arboretum Principles and Practice</td>
<td>An introduction to the design of enhanced environments through the use of plants. Prerequisite: One of FRST 201, NRES 201, BIOL 230. And third-year standing. Equivalency: APBI 423. Credit may be granted for only one of UFOR 300, UFOR 400. And fourth-year standing. In Person Learning - Tue 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>UFOR_V 300-102</td>
<td></td>
<td>Arboretum Principles and Practice</td>
<td>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. Prerequisite: Third-year standing. Credit may be granted for only one of UFOR 300, UFOR 400. And fourth-year standing in the B.U.F. program. In Person Learning - Thu 12:30 p.m. - 3:10 p.m.</td>
</tr>
<tr>
<td>UFOR_V 400-201</td>
<td></td>
<td>Urban Forestry Field School</td>
<td>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. Prerequisite: All of UFOR 300, UFOR 400. And fourth-year standing in the B.U.F. program. In Person Learning - Arrange Arranged</td>
</tr>
<tr>
<td>UFOR_V 401-101</td>
<td></td>
<td>Integrated Urban Forestry Capstone Studio</td>
<td>Integration of biophysical and socio-economic components of urban green space 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. 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.</td>
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<tr>
<td>UFOR_V 401-DNU_101</td>
<td></td>
<td>Integrated Urban Forestry Capstone Studio</td>
<td>Integration of biophysical and socio-economic components of urban green space 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. Prerequisite: All of UFOR 300, UFOR 400. And fourth-year standing in the B.U.F. program. In Person Learning - Arrange Arranged</td>
</tr>
<tr>
<td>UFOR_V 401-102</td>
<td></td>
<td>Integrated Urban Forestry Capstone Studio</td>
<td>Integration of biophysical and socio-economic components of urban green space 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. 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.</td>
</tr>
<tr>
<td>UFOR_V 403-201</td>
<td></td>
<td>Urban Forestry Administration, Policy and Law</td>
<td>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 410 or UFOR 510. Prerequisite: Fourth-year standing. Prerequisite: UFOR 510. In Person Learning - Arrange Arranged</td>
</tr>
<tr>
<td>UFOR_V 404-201</td>
<td></td>
<td>Ecological Restoration</td>
<td>Theory and methods of long-range green space planning for urban areas. In Person Learning - Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>UFOR_V 404-202</td>
<td></td>
<td>Green Network Planning</td>
<td>Theory and methods of long-range green space planning for urban areas. In Person Learning - Thu 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>UFOR_V 405-201</td>
<td></td>
<td>Green Network Planning</td>
<td>Theory and methods of long-range green space planning for urban areas. In Person Learning - Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>UFOR_V 406-201</td>
<td></td>
<td>Directed Studies in Urban Forestry</td>
<td>Theory and methods of long-range green space planning for urban areas. In Person Learning - Thu 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>UFOR_V 407-201</td>
<td></td>
<td>Directed Studies in Urban Forestry</td>
<td>Theory and methods of long-range green space planning for urban areas. In Person Learning - Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
</tbody>
</table>
Directed Studies in Urban Forestry

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: URST 520. (3-0-0)

Biodiversity in Urban Areas

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 URST 101, URST 112, URST 512 (3-0-0)

Urban Forest Governance

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. (3-0-0)

Ecology of Urban Green Infrastructure

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 URST 460 or UFOR 520. This course is not eligible for Credit/D/Fail grading. (3-0-0)

Ecology of Urban Green Infrastructure

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 URST 460 or UFOR 520. This course is not eligible for Credit/D/Fail grading. (3-0-0)

Ecology of Urban Green Infrastructure

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 URST 460 or UFOR 520. This course is not eligible for Credit/D/Fail grading. (3-0-0)
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**

**URST 200-L36**
**URST V** 200 128
Cities

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**

**URST 200-L3C**
**URST V** 200 12C
Cities

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**

**URST 200-L2O**
**URST V** 200 12D
Cities

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**

**URST 200-L3E**
**URST V** 200 12E
Cities

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 252 or URST 352. Equivalency: GEOG 252.

**In Person Learning**
**Tue Thu**
11:00 a.m. - 12:30 p.m.

**URST 250-201**
**URST V** 362 201
Urbanization in the Global South

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 252 or URST 352. Equivalency: GEOG 252.

**In Person Learning**
**Tue Thu**
11:00 a.m. - 12:30 p.m.

**URST 400-201**
**URST V** 400 201
Seminar in Urban Studies

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. - 12:30 p.m.

**URST 400-202**
**URST V** 400 202
Seminar in Urban Studies

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. - 12:30 p.m.

**URST 450-201**
**URST V** 450 201
Urban Research

Historical, legal, and quantitative analysis of urban research. Emphasis on spatial, social, 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. - 12:30 p.m.

**URSY_V 510-001**
**URSY V** 510 001
Urban Systems and Society

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; arranging and greening 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

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**
**Thu**
10:30 a.m. - 12:00 p.m.

**URSY_V 540-101**
**URSY V** 540 101
Urban Systems Project Delivery and Economics

Stakeholder practices: stakeholder engagement, public consultation, partnerships; stakeholder management, buy-in. Project delivery: project delivery options, public-private partnerships (PPP), integrated project delivery (IPD). Modelling: sustainability. This course is not eligible for Credit/D/Fail grading.

**In Person Learning**
**Thu**
1:00 p.m. - 3:30 p.m.

**URSY_V 550-001**
**URSY V** 550 001
Infrastructure Asset Management

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 550-002**
**URSY V** 550 002
Infrastructure Asset Management

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**
**Wed**
5:00 p.m. - 7:00 p.m.

**KANT_V 140-D_VIS**
**KANT V** 140 D V01
Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**KANT_V 140-D_VIS**
**KANT V** 140 D V02
Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**Online Learning**
**Arranged**

**KANT_V 140-D_VIS**
**KANT V** 140 D V03
Content and Language Enrichment Tutorials

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.

**KANT_V 140-D_VIS**
**KANT V** 140 D V04
Content and Language Enrichment Tutorials

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. - 5:00 p.m.

**KANT_V 140-D_VIS**
**KANT V** 140 D V05
Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**In Person Learning**
**Arranged**

**KANT_V 140-D_VIS**
**KANT V** 140 D V06
Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**In Person Learning**
**Arranged**

**KANT_V 140-D_VIS**
**KANT V** 140 D V11
Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**In Person Learning**
**Wed**
10:30 a.m. - 11:00 a.m.

**KANT_V 140-D_VIS**
**KANT V** 140 D V12
Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**In Person Learning**
**Wed**
10:30 a.m. - 11:00 a.m.

**KANT_V 140-D_VIS**
**KANT V** 140 D V13
Content and Language Enrichment Tutorials

Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**In Person Learning**
**Fri**
10:30 a.m. - 11:00 a.m.
### Foundation Studio: Digital Media

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Schedule</th>
<th>Description</th>
<th>Mode</th>
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<tbody>
<tr>
<td>150-DNU_D</td>
<td>Mon-Wed</td>
<td>Content and Language Enrichment Tutorials</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>150-DNU_D_VE1</td>
<td>Mon-Wed</td>
<td>Content and Language Enrichment Tutorials</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>150-DNU_D_VE2</td>
<td>Mon-Wed</td>
<td>Content and Language Enrichment Tutorials</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>150-DNU_D_VE3</td>
<td>Mon-Wed</td>
<td>Content and Language Enrichment Tutorials</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

**Course Details:**
Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.

**In Person Learning:**
- 10:00 a.m. - 12:00 p.m.
- 2:00 p.m. - 4:00 p.m.
- 6:00 p.m. - 8:00 p.m.

**Foundation Studio: Digital Media**
- 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.)
- 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]
- Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning.
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Department</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>VISA_V 110-104</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Tue 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-105</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Tue 2:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-106</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Tue 4:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-107</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-108</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-109</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-110</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>VISA_V 110-111</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-112</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-113</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>VISA_V 110-114</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>VISA_V 110-115</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>VISA_V 110-116</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>VISA_V 110-117</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>VISA_V 110-118</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>VISA_V 110-119</td>
<td>Foundation Studio: Digital Media</td>
<td>In Person Learning</td>
<td>Thu 10:00 a.m. - 12:00 p.m.</td>
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<td>VISA_V 120-002</td>
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<td>VISA_V 120-024</td>
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<tr>
<td>VISA_V 120-025</td>
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<td>In Person Learning</td>
<td>Mon 12:00 p.m. - 1:00 p.m.</td>
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Drawing, painting, and related media in an introduction to studio practice. (This course is open to all UBC students, regardless of prior experience.)
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</table>

- **VISA V 110-001**: 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 110-002**: 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 110-003**: 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 110-004**: 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 Fri 9:00 a.m. - 12:00 p.m.
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

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

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

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

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

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

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

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: Thu

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: Thu

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

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

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

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

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

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

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

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

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

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

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

Contemporary sculpture practice and theory. Various sculptural 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

Contemporary sculpture practice and theory. Various sculptural 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

Contemporary sculpture practice and theory. Various sculptural 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

Contemporary sculpture practice and theory. Various sculptural 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

Development and history of contemporary art practice, with a focus on how artists mediate and exchange ideas. Intended for second-year BFA VISA students. Prerequisite: A score of 72% or higher in VISA 183.

In Person Learning: Fri
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<td>In Person Learning</td>
<td>Intermediate Digital Arts I</td>
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<td>VISA 311-001</td>
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<td>VISA 310-001</td>
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<td>Investigating issues and trends in interactive digital media and culture through the production of contemporary video art. Technical instruction in video manipulation software. Individual and/or group projects.</td>
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<tr>
<td>VISA 401-B_001</td>
<td>Advanced Open Studio</td>
<td>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 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.</td>
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<tr>
<td>VISA 401-C_001</td>
<td>Advanced Open Studio</td>
<td>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 350, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.</td>
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<tr>
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<td>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 350, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.</td>
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<td>Advanced Open Studio</td>
<td>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 350, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.</td>
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<td>Advanced Open Studio</td>
<td>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 350, VISA 352, VISA 360, VISA 361, VISA 370, VISA 375, VISA 390.</td>
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<tr>
<td>VISA 475-001</td>
<td>Exhibition Theory and Practice</td>
<td>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.</td>
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<tr>
<td>VISA 479-001</td>
<td>Performance Actions and Approaches</td>
<td>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: ARTH 479</td>
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<tr>
<td>VISA 480-001</td>
<td>Advanced Seminar II</td>
<td>Readings in art theory and criticism. This course is not eligible for Credit/D/Fail grading. Prerequisite: VISA 380.</td>
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<td>VISA 481-001</td>
<td>Advanced Seminar II</td>
<td>Readings in art theory and criticism. This course is not eligible for Credit/D/Fail grading. Prerequisite: VISA 380.</td>
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</tr>
<tr>
<td>VISA 490-001</td>
<td>Advanced Tutorial in Studio I</td>
<td>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.</td>
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</tr>
<tr>
<td>VISA 490-002</td>
<td>Advanced Tutorial in Studio I</td>
<td>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.</td>
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</tr>
<tr>
<td>VISA 495-001</td>
<td>Advanced Tutorial in Studio II</td>
<td>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.</td>
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</tr>
<tr>
<td>VISA 495-002</td>
<td>Advanced Tutorial in Studio II</td>
<td>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.</td>
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</tr>
<tr>
<td>VISA 580-001</td>
<td>Major Essay</td>
<td>M.F.A. only. This course is not eligible for Credit/D/Fail grading.</td>
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</tr>
<tr>
<td>VISA 580-002</td>
<td>Major Essay</td>
<td>M.F.A. only. This course is not eligible for Credit/D/Fail grading.</td>
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</tr>
<tr>
<td>VISA 581-001</td>
<td>NIJA Studio V</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>VISA 582-001</td>
<td>NIJA Studio VI</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>VISA 583-A_001</td>
<td>NIJA Research Seminar</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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</tr>
<tr>
<td>VISA 583-B_001</td>
<td>NIJA Research Seminar</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
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</tr>
<tr>
<td>VISA 583-C_001</td>
<td>Directed Studies in Visual Art</td>
<td>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 instructor for this course will be determined in consultation with the student prior to the registration.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Description</td>
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<tr>
<td>WACH_V 512-001</td>
<td>WACH_V 512</td>
<td>001</td>
<td>Visiting Undergraduate Students</td>
<td>Seminars in Women and Children's Health</td>
</tr>
<tr>
<td>WACH_V 514-001</td>
<td>WACH_V 514</td>
<td>001</td>
<td>Overview of Gynecologic Oncology</td>
<td>Indicators of maternal/newborn well-being across population subgroups, changing trends in obstetrical interventions, perinatal mortality, and the analysis of perinatal data. This course is not eligible for Credit/D/Fail grading. Equivalency: OBST5107</td>
</tr>
<tr>
<td>WACH_V 522-001</td>
<td>WACH_V 522</td>
<td>001</td>
<td>Directed Studies in Visual Art</td>
<td>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.</td>
</tr>
<tr>
<td>WOOD_V 120-101</td>
<td>WOOD_V 120</td>
<td>101</td>
<td>Introduction to Wood Products and Global Trade</td>
<td>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. (3-0)</td>
</tr>
<tr>
<td>WOOD_V 120-101</td>
<td>WOOD_V 120</td>
<td>166</td>
<td>Introduction to Wood Products and Global Trade</td>
<td>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. (3-0)</td>
</tr>
<tr>
<td>WOOD_V 225-203</td>
<td>WOOD_V 225</td>
<td>203</td>
<td>Communications Strategies</td>
<td>Strategies for thinking critically and acting effectively about topics that engage practitioners in Forestry, particularly in Wood Products Processing. Planning, drafting and editing of professional-quality documents for stakeholders and other stakeholders. Developing and presentation skills. This course is not eligible for Credit/D/Fail grading. (3-0) Prerequisites: One of FRST 150, MATH 150, LFS 150, WOOD 155, or ENGL 1st or WRCM 1st.</td>
</tr>
<tr>
<td>WOOD_V 244-001</td>
<td>WOOD_V 244</td>
<td>001</td>
<td>Quantitative Methods in the Wood Industry</td>
<td>Solving practical problems in the wood industry using computer-based mathematical tools including spreadsheets, basic programming and relational database systems. (3-2-0) Prerequisites: One of MATH 110, MATH 120.</td>
</tr>
</tbody>
</table>

**Required Course:**
- WOOD_V 225-203
- WOOD_V 244-001

**Elective Courses:**
- WOOD_V 120-101
- WOOD_V 120-166
- WOOD_V 225-203
- WOOD_V 244-001

**Specialization Courses:**
- WACH_V 512-001
- WACH_V 514-001
- WACH_V 522-001

**Advanced Course:**
- WACH_V 554-001

**Honors Course:**
- WOOD_V 120-101

**Independent Study:**
- WOOD_V 202-002

**Research:**
- WOOD_V 244-001

**Graduate Course:**
- WOOD_V 244-001

**Pass/Fail:**
- WOOD_V 120-101
- WOOD_V 120-166
- WOOD_V 225-203
- WOOD_V 244-001

**Credit/D/Fail:**
- WOOD_V 244-001

**Equivalency:**
- OBST503
- OBST501
- OBST509
- WACH_V 504
- WACH_V 514
- WACH_V 512
- WACH_V 513
- WACH_V 549
- M.S. Thesis
- Ph.D. Thesis

**Registration:**
- The credit value for this course will be determined in consultation with the student prior to the registration. Not available to students enrolled in the M.F.A. program in Visual Arts. This course is not eligible for Credit/D/Fail grading. Equivalency: SPPH537, OBST507

**Attendance:**
- In Person Learning

**Grading:**
- Arranged

**Hours:**
- 10:00 a.m. - 12:00 p.m.
- 1:00 p.m. - 4:00 p.m.
- 2:30 p.m. - 4:00 p.m.
WOOD 244-L01  WOOD 260 101 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 245-L01  WOOD 245 201 Programming for Wood Products Manufacturing Applications W2 Practical computer and problems 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 245-L01  WOOD 245 201 Programming for Wood Products Manufacturing Applications W2 Practical computer and problems 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 276-L01  WOOD 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. [2-2-0] Prerequisite: One of PHYS 117, PHYS 115, PHYS 110 and one of MATH 101, MATH 121. In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

WOOD 276-L01  WOOD 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. [2-2-0] Prerequisite: One of PHYS 117, PHYS 115, PHYS 110 and one of MATH 101, MATH 121. In Person Learning Tue 10:00 a.m. - 12:00 p.m.

WOOD 280-201  WOOD 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 280-201  WOOD 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 282-201  WOOD 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: WOOD 201. In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

WOOD 282-201  WOOD 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: WOOD 201. In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

WOOD 290-201  WOOD 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: WOOD 310. In Person Learning Wed 10:00 a.m. - 12:00 p.m.

WOOD 290-201  WOOD 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: WOOD 310. In Person Learning Wed 10:00 a.m. - 12:00 p.m.

WOOD 292-201  WOOD 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. [3-4] In Person Learning Mon 10:00 a.m. - 12:00 p.m.

WOOD 292-201  WOOD 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. [3-4] In Person Learning Fri 10:00 a.m. - 12:00 p.m.

WOOD 310-101  WOOD 310 101 Co-operative Work Placement W1 Approved and supervised work experience with a public or private organization for a minimum of 12 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 311-101  WOOD 311 101 Co-operative Work Placement II W2 Approved and supervised work experience with a public or private organization for a minimum of 12 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 310-101  WOOD 310 101 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 MATH 231, MATH 232. In Person Learning Tue Thu 9:00 a.m. - 10:00 a.m.

WOOD 310-101  WOOD 310 101 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 MATH 231, MATH 232. In Person Learning Thu 10:00 a.m. - 12:00 p.m.

WOOD 315-101  WOOD 315 101 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. [2-3-2] Prerequisite: One of FRST 231, MATH 231, MATH 232. In Person Learning Mon Wed 10:00 a.m. - 12:00 p.m.

WOOD 315-101  WOOD 315 101 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. [2-3-2] Prerequisite: One of FRST 231, MATH 231, MATH 232. In Person Learning Fri 10:00 a.m. - 12:00 p.m.

WOOD 316-101  WOOD 316 101 Machine Components W1 Machines used for wood products manufacturing, design, maintenance, purchasing. Selection of components including drives, bearing, blades, clutches, belts, steam, grime. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: WOOD 270. In Person Learning Mon Wed Fri 9:00 a.m. - 11:00 a.m.

WOOD 316-101  WOOD 316 101 Machine Components W1 Machines used for wood products manufacturing, design, maintenance, purchasing. Selection of components including drives, bearing, blades, clutches, belts, steam, grime. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: WOOD 270. In Person Learning Mon Wed Fri 9:00 a.m. - 11:00 a.m.

WOOD 320-201  WOOD 320 201 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 320-201  WOOD 320 201 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 Mon 4:00 p.m. - 6:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>WOOD 373</td>
<td>3-1-0</td>
<td>CAD/CAM</td>
<td>Lecture</td>
<td>Introduction to computer-aided 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. Prerequisite: All of WOOD 290, WOOD 292.</td>
</tr>
<tr>
<td>WOOD 305</td>
<td>2-3-0</td>
<td>Co-operative Work Placement V</td>
<td>Practicum</td>
<td>In special cases and with the approval of the instructor concerned, a student may carry on directed research in wood products processing. The credit value for this course will be determined in consultation with the student prior to the registration. Registration. Prerequisite: Permission of the Co-op Coordinator.</td>
</tr>
<tr>
<td>WOOD 276</td>
<td>3-1-0</td>
<td>Wood Adhesives and Coatings</td>
<td>Lecture</td>
<td>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.</td>
</tr>
<tr>
<td>WOOD 273</td>
<td>2-1-0</td>
<td>Co-operative Work Placement</td>
<td>Practicum</td>
<td>Co-operative Work Placement. This course is not eligible for Credit/D/Fail grading. Prerequisite: WOOD 276.</td>
</tr>
<tr>
<td>WOOD 384</td>
<td>3-0-1</td>
<td>Wood Adhesives and Coatings</td>
<td>Lecture</td>
<td>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.</td>
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<tr>
<td>WOOD 306</td>
<td>3-1-0</td>
<td>Wood Finishing and Protection</td>
<td>Lecture</td>
<td>Introduction to primary log breakdown systems and lumber material flow in modern sawmills and planermills. Lumber drying equipment and methods. [1-2] Prerequisite: WOOD 282.</td>
</tr>
<tr>
<td>WOOD 342</td>
<td>3-1-0</td>
<td>Applied Mechanics of Materials</td>
<td>Lecture</td>
<td>Beam analysis, shaft analysis, columns, stress/strain transformations, thin-walled pressure vessels, material strength failure, criteria, fatigue, design and sizing, FOS standards; [2-2-0] Prerequisite: WOOD 274.</td>
</tr>
<tr>
<td>WOOD 276</td>
<td>3-2-0</td>
<td>Forest Management</td>
<td>Lecture</td>
<td>Introduction to the planning, development, and management of woodlands and forests. Forest management systems and forest management plans. Credit/D/Fail grading. Prerequisite: WOOD 276.</td>
</tr>
<tr>
<td>WOOD 304</td>
<td>2-2-0</td>
<td>Forest Management</td>
<td>Lecture</td>
<td>Introduction to the planning, development, and management of woodlands and forests. Forest management systems and forest management plans. Credit/D/Fail grading. Prerequisite: WOOD 276.</td>
</tr>
<tr>
<td>WOOD 372</td>
<td>3-1-0</td>
<td>Forest Management</td>
<td>Lecture</td>
<td>Introduction to the planning, development, and management of woodlands and forests. Forest management systems and forest management plans. Credit/D/Fail grading. Prerequisite: WOOD 276.</td>
</tr>
<tr>
<td>WOOD 274</td>
<td>2-2-0</td>
<td>Co-operative Work Placement</td>
<td>Practicum</td>
<td>Co-operative Work Placement. This course is not eligible for Credit/D/Fail grading. Prerequisite: WOOD 276.</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>WOOD 419-101</td>
<td>Principles of Wood Cutting and Tooling</td>
<td>3-3</td>
<td>Wood cutting fundamentals, chip formation, cutting conditions, edge maintenance, sawing, planing, milling, veneer cutting, chipping, turning. Prerequisite: WOOD 356.</td>
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<tr>
<td>WOOD 420-102</td>
<td>Wood Products Design and Development I</td>
<td>3-3</td>
<td>Introduction to wood products design, from the product idea to the production-ready design. This course is not eligible for Credit/D/Fail grading. Prerequisites: All of WOOD 305, WOOD 480, WOOD 489.</td>
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<tr>
<td>WOOD 421-103</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
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<tr>
<td>WOOD 422-104</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
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<tr>
<td>WOOD 423-105</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
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</tr>
<tr>
<td>WOOD 424-106</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
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<tr>
<td>WOOD 425-107</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
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<tr>
<td>WOOD 426-108</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
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</tr>
<tr>
<td>WOOD 427-109</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
<td></td>
</tr>
<tr>
<td>WOOD 428-110</td>
<td>Environmental Facilities Design</td>
<td>3-2</td>
<td>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. Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.</td>
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</table>

**Course Notes:**
- Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing.
- This course is not eligible for Credit/D/Fail grading. All prerequisites must be met.
- In Person Learning.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>WOOD_V570-C_102</td>
<td>3</td>
<td>Directed Studies in Wood Science and Forest Products</td>
<td>Wed Fri</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>WOOD_V570-C_102</td>
<td>3</td>
<td>Directed Studies in Wood Science and Forest Products</td>
<td>Tue Thu</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>WOOD_V570-C_102</td>
<td>3</td>
<td>Directed Studies in Wood Science and Forest Products</td>
<td>Thu</td>
<td>1:00 p.m. - 2:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>WOOD_V570-C_102</td>
<td>3</td>
<td>Directed Studies in Wood Science and Forest Products</td>
<td>Thu</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>WOOD_V570-201</td>
<td>3</td>
<td>Advanced Wood Physics</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>WOOD_V570-201</td>
<td>3</td>
<td>Advanced Wood Physics</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>WRDS_V150-A_001</td>
<td>3</td>
<td>Writing and Research in the Disciplines</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon-Tue Thu 9:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>WRDS_V150-A_002</td>
<td>3</td>
<td>Writing and Research in the Disciplines</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon Tue Thu 10:00 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>WRDS_V150-A_003</td>
<td>3</td>
<td>Writing and Research in the Disciplines</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon Tue Thu 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>WRDS_V150-A_011</td>
<td>3</td>
<td>Writing and Research in the Disciplines</td>
<td>W1</td>
<td>In Person Learning</td>
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This course is not eligible for Credit/D/Fail grading.
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<td>5:00 p.m. - 6:00 p.m.</td>
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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.
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*This course is not eligible for Credit/D/Fail grading.*

Writing and reading in disciplines across the academy, focusing on practices that research disciplines share and those that differentiate them.
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**Description:**
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.
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**WRDS_V 250-100**  
**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.  
Prerequisites: One of ASTU 100, ASTU 101, WRDS 150, WRDS 151.  
In Person Learning  
Arranged  
Arranged

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**WRDS_V 350-001**  
**WRDS_V 350-002**  
**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  
Mon Wed Fri  
11:00 a.m. - 12:00 p.m.

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**WRDS_V 360-001**  
**WRDS_V 360-002**  
**WRDS_V 360-003**  
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 250, ENGL 100, SCIE 113, SCIE 500, CHEM 500, ART 176, LFS 150, FIRST 150, COMM 500.  
In Person Learning  
Arranged  
Arranged  
Arranged

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**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 151, ENGL 100, SCIE 113, SCIE 500, CHEM 500, ART 176, LFS 150, FIRST 150, COMM 500, Arts One, ASTU 100, ASTU 101.  
In Person Learning  
Mon Wed Fri  
1:00 p.m. - 2:00 p.m.

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**ZOO_V 500-A 001**  
**ZOO_V 500-B 001**  
Directed Studies in Zoology  
W1-2  
In-depth study of selected topics in Zoology. Topics vary year by year. Restricted to students with third-year standing or higher. Prerequisite: 3 credits from one of ZOO 100, ZOO 250, ENGL 100, SCIE 113, SCIE 500, CHEM 500, ART 176, LFS 150, FIRST 150, COMM 500, Arts One, ASTU 100, ASTU 101, CAP 100, CAP 101.  
In Person Learning  
Tue Thu  
1:00 p.m. - 2:00 p.m.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term</th>
<th>Credits</th>
<th>Delivery</th>
<th>Weekly Schedule</th>
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<td>B_D02</td>
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<td>Comparative Animal Physiology Seminar</td>
<td>W1-2</td>
<td>001</td>
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<td>Advanced Conservation Science</td>
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<td>M.Sc. Thesis</td>
<td>W1</td>
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